


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				FORM 3 AMENDED REPORT <input type="checkbox"/>		
<b>APPLICATION FOR PERMIT TO DRILL</b>				<b>1. WELL NAME and NUMBER</b> Greater Monument Butte F-23-8-17		
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE		
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)		
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY				<b>7. OPERATOR PHONE</b> 435 646-4825		
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052				<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-77233		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Brad and Joann Nelson				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> PO Box 638, Myton, UT 84066				<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
<b>LOCATION AT SURFACE</b>	2002 FNL 635 FEL	SENE	22	8.0 S	17.0 E	S
<b>Top of Uppermost Producing Zone</b>	1625 FNL 62 FEL	SENE	22	8.0 S	17.0 E	S
<b>At Total Depth</b>	1414 FNL 278 FWL	SWNW	23	8.0 S	17.0 E	S
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 278		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1080		<b>26. PROPOSED DEPTH</b> MD: 6701 TVD: 6701		
<b>27. ELEVATION - GROUND LEVEL</b> 5096		<b>28. BOND NUMBER</b> WYB000493		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478		
<b>ATTACHMENTS</b>						
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
<b>NAME</b> Mandie Crozier		<b>TITLE</b> Regulatory Tech		<b>PHONE</b> 435 646-4825		
<b>SIGNATURE</b>		<b>DATE</b> 11/30/2010		<b>EMAIL</b> mcrozier@newfield.com		
<b>API NUMBER ASSIGNED</b> 43013505170000		<b>APPROVAL</b>  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6701		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6701	15.5			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	300		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	300	24.0			

NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE F-23-8-17  
AT SURFACE: SE/NE SECTION 22, T8S, R17E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1850'
Green River	1850'
Wasatch	6590'
<b>Proposed TD</b>	<b>6701'</b>

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 1850' – 6590'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM****a. Casing Design: Greater Monument Butte F-23-8-17**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950	1,370	244,000
						17.53	14.35	33.89
Prod casing 5-1/2"	0'	6,701'	15.5	J-55	LTC	4,810	4,040	217,000
						2.26	1.89	2.09

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe =	13.0 ppg
Pore pressure at surface casing shoe =	8.33 ppg
Pore pressure at prod casing shoe =	8.33 ppg
Gas gradient =	0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

**b. Cementing Design: Greater Monument Butte F-23-8-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,701'	Prem Lite II w/ 10% gel + 3% KCl	325	30%	11.0	3.26
			1059			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 350$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 350$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

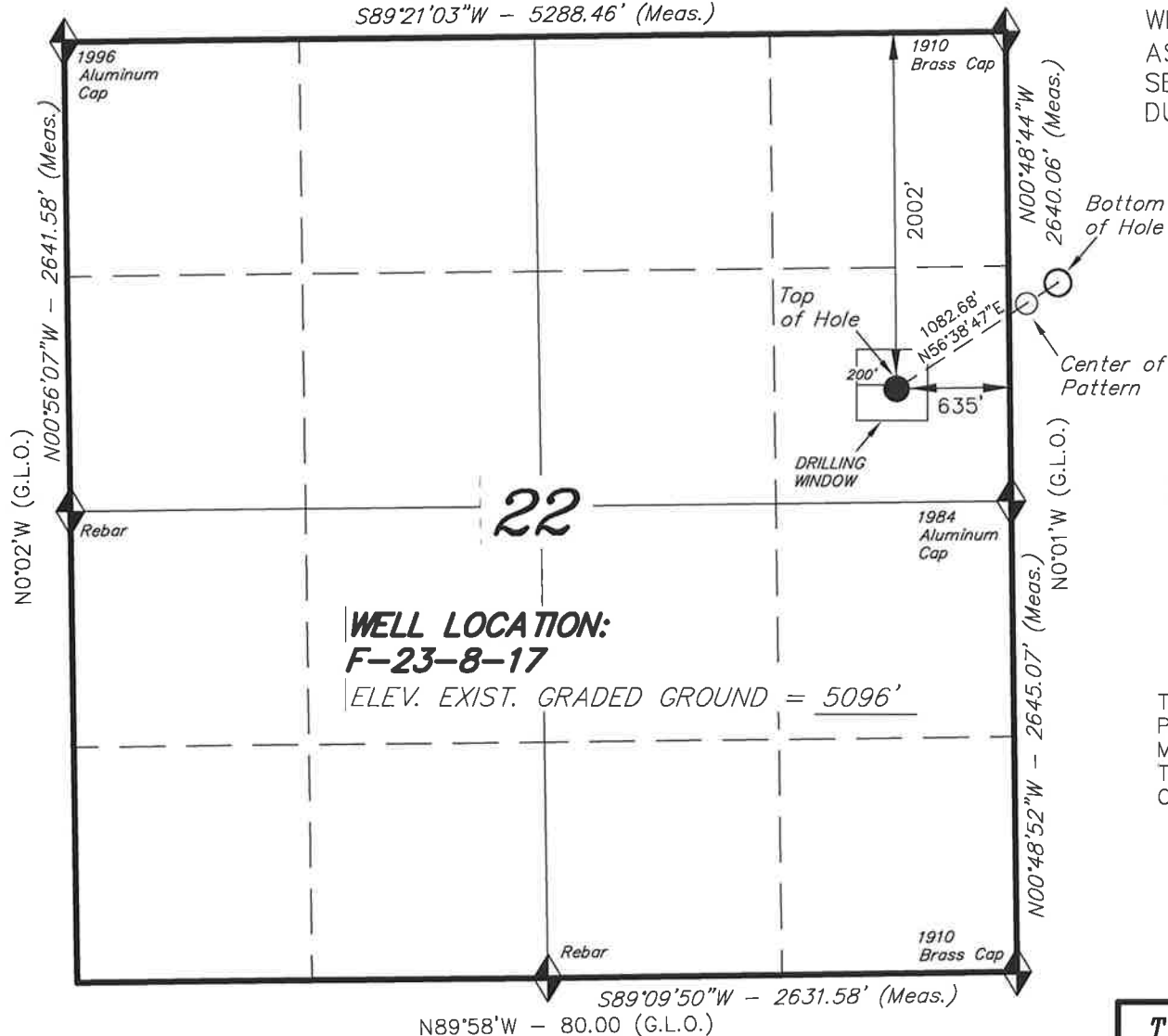
10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2011, and take approximately seven (7) days from spud to rig release.

**T8S, R17E, S.L.B.&M.**

N89°31'W - 79.96 (G.L.O.)

S89°21'03"W - 5288.46' (Meas.)

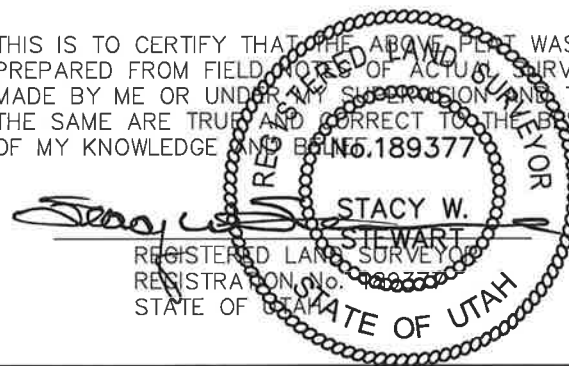
**NEWFIELD EXPLORATION COMPANY**

WELL LOCATION, F-23-8-17, LOCATED  
AS SHOWN IN THE SE 1/4 NE 1/4 OF  
SECTION 22, T8S, R17E, S.L.B.&M.  
DUCHESE COUNTY, UTAH.

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The center of pattern footages are 1530' FNL & 100' FWL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.



= SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on  
LOCATION: an N.G.S. OPUS Correction.  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

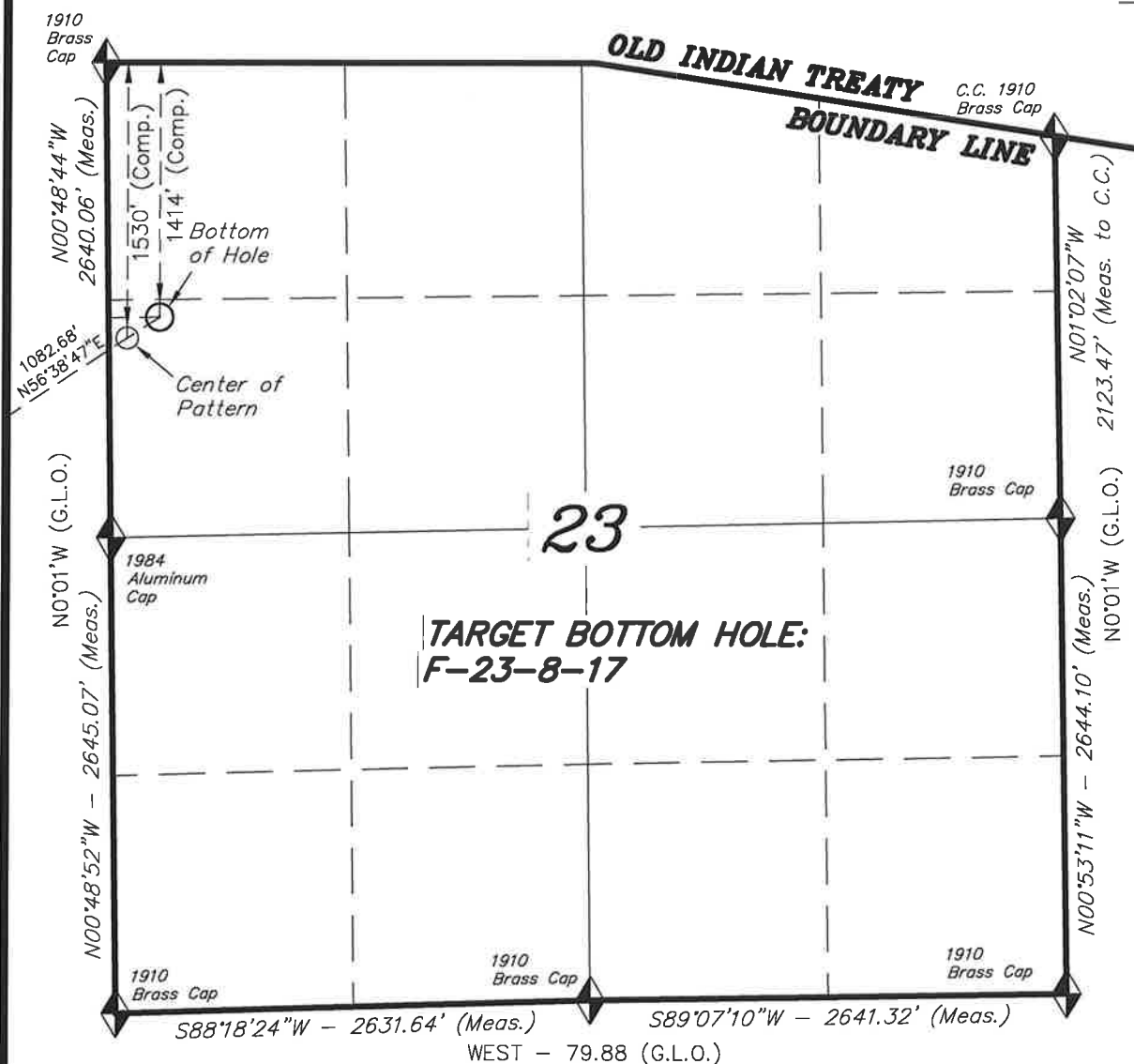
**F-23-8-17**  
**(Surface Location) NAD 83**  
LATITUDE = 40° 06' 18.69"  
LONGITUDE = 109° 59' 07.40"

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 08-17-10	SURVEYED BY: S.V.
DATE DRAWN: 09-30-10	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'



**T8S, R17E, S.L.B.&M.****NEWFIELD EXPLORATION COMPANY**

TARGET BOTTOM HOLE, F-23-8-17,  
LOCATED AS SHOWN IN THE SW 1/4  
NW 1/4 OF SECTION 23, T8S, R17E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.

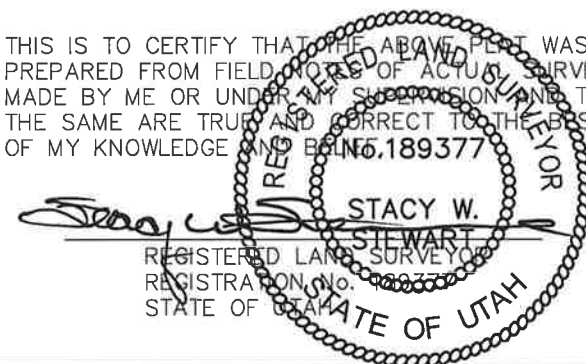
**Note:**

1. The center of pattern footages are 1530' (Comp.) FNL & 100' FWL.
2. The bottom of hole footages are 1410' (Comp.) FNL & 278' FWL.

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

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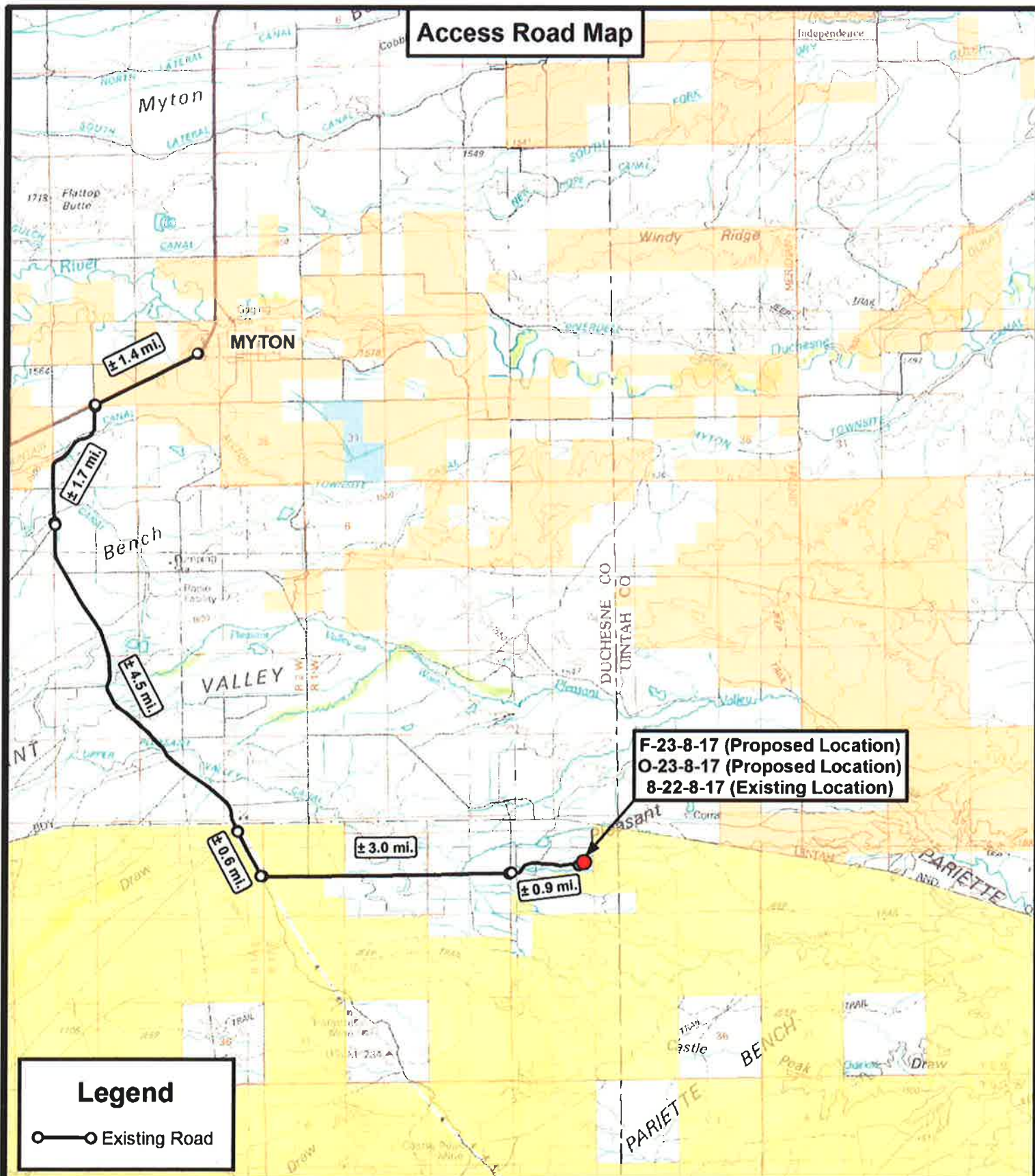
◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on  
LOCATION: an N.G.S. OPUS Correction.  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 08-17-10	SURVEYED BY: S.V.
DATE DRAWN: 10-04-10	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'



## Legend

—○— Existing Road



**Tri State**  
**Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

F-23-8-17 (Proposed Location)  
O-23-8-17 (Proposed Location)  
8-22-8-17 (Existing Location)  
SEC. 22, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: C.H.M.  
DATE: 10-05-2010  
SCALE: 1:100,000

**TOPOGRAPHIC MAP**

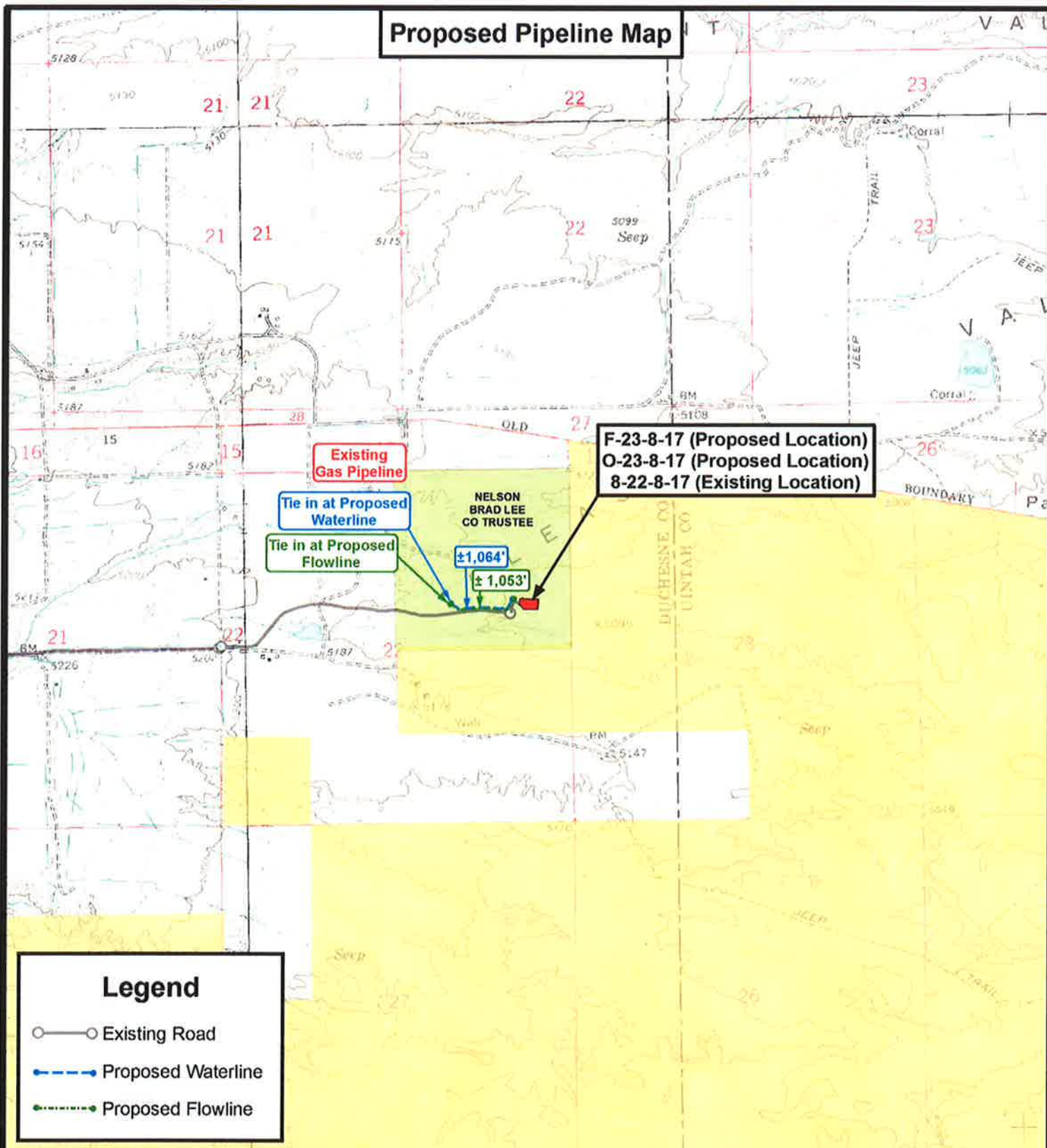
SHEET

**A**



B

# Proposed Pipeline Map



## Legend

- Existing Road
- Proposed Waterline
- Proposed Flowline

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

F-23-8-17 (Proposed Location)  
O-23-8-17 (Proposed Location)  
8-22-8-17 (Existing Location)  
SEC. 22, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	10-05-2010
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET

**C**

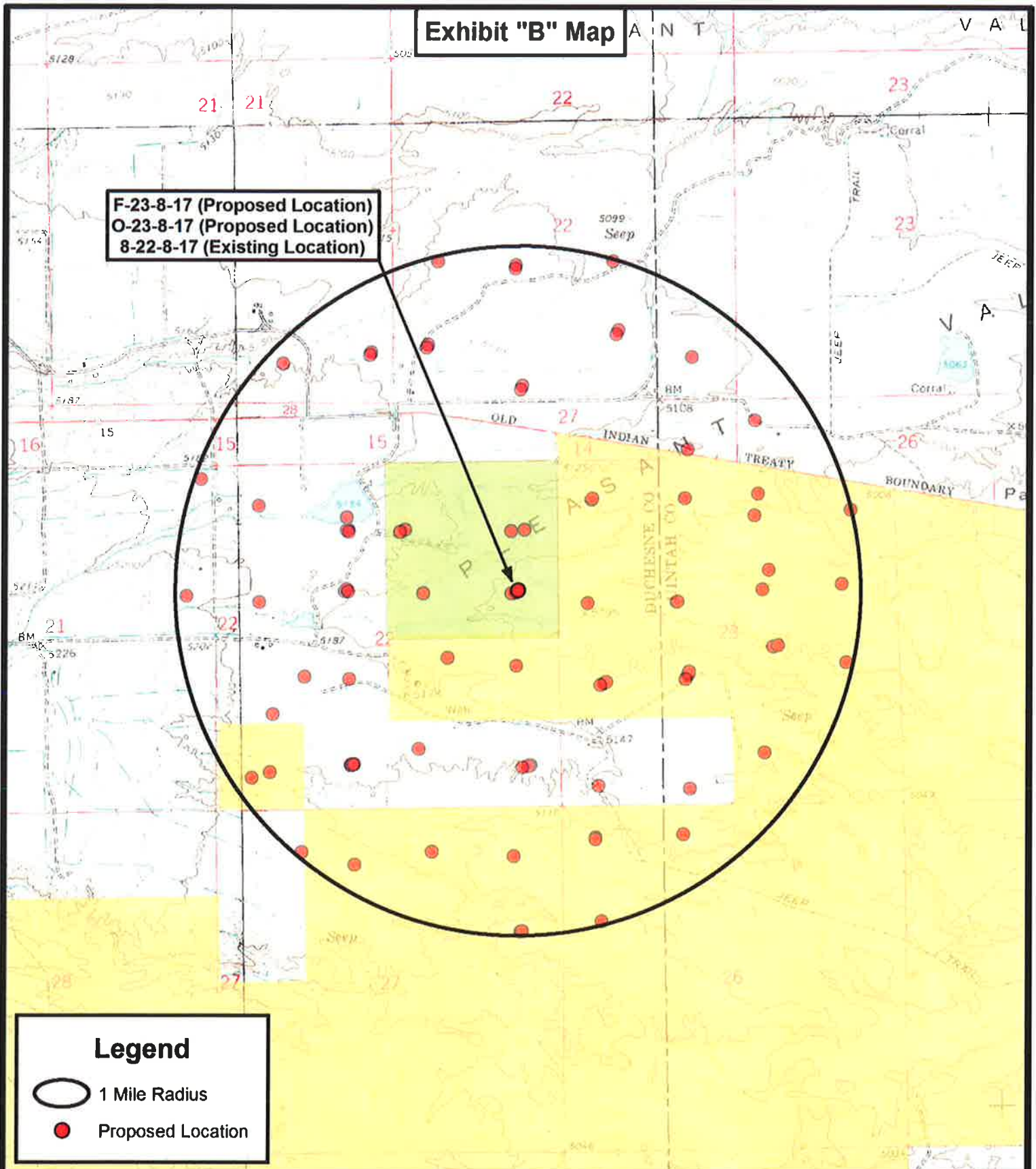






# Exhibit "B" Map

F-23-8-17 (Proposed Location)  
O-23-8-17 (Proposed Location)  
8-22-8-17 (Existing Location)



## Legend

- 1 Mile Radius
- Proposed Location

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**Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

F-23-8-17 (Proposed Location)  
O-23-8-17 (Proposed Location)  
8-22-8-17 (Existing Location)  
SEC. 22, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: C.H.M.  
DATE: 10-05-2010  
SCALE: 1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 22 T8S, R17E  
F-23-8-17**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**27 September, 2010**



NEWFIELD



## PayZone Directional Services, LLC.

## Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well F-23-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	F-23-8-17 @ 5108.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	F-23-8-17 @ 5108.0ft (Original Well Elev)
<b>Site:</b>	SECTION 22 T8S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	F-23-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

Site	SECTION 22 T8S, R17E, SEC 22 T8S, R17E				
Site Position:		Northing:	7,208,900.00 ft	Latitude:	40° 6' 1.964 N
From:	Lat/Long	Easting:	2,062,000.00 ft	Longitude:	109° 59' 34.084 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.97 °

Well	F-23-8-17, SHL LAT: 40° 06' 18.69, LONG: -109° 59' 07.40					
Well Position	+N/-S	1,692.3 ft	Northing:	7,210,627.14 ft	Latitude:	40° 6' 18.690 N
	+E/-W	2,073.4 ft	Easting:	2,064,044.41 ft	Longitude:	109° 59' 7.400 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,108.0 ft	Ground Level:	5,096.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2010/09/27	11.38	65.88	52,388

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	5,500.0	0.0	0.0	56.65	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,324.9	10.87	56.65	1,320.5	37.7	57.3	1.50	1.50	0.00	56.65	
5,580.7	10.87	56.65	5,500.0	479.0	727.9	0.00	0.00	0.00	0.00	F-23-8-17 TGT
6,700.9	10.87	56.65	6,600.0	595.2	904.4	0.00	0.00	0.00	0.00	



NEWFIELD



## PayZone Directional Services, LLC.

## Planning Report



**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 22 T8S, R17E  
**Well:** F-23-8-17  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well F-23-8-17  
**TVD Reference:** F-23-8-17 @ 5108.0ft (Original Well Elev)  
**MD Reference:** F-23-8-17 @ 5108.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	56.65	700.0	0.7	1.1	1.3	1.50	1.50	0.00
800.0	3.00	56.65	799.9	2.9	4.4	5.2	1.50	1.50	0.00
900.0	4.50	56.65	899.7	6.5	9.8	11.8	1.50	1.50	0.00
1,000.0	6.00	56.65	999.3	11.5	17.5	20.9	1.50	1.50	0.00
1,100.0	7.50	56.65	1,098.6	18.0	27.3	32.7	1.50	1.50	0.00
1,200.0	9.00	56.65	1,197.5	25.9	39.3	47.0	1.50	1.50	0.00
1,300.0	10.50	56.65	1,296.1	35.2	53.4	64.0	1.50	1.50	0.00
1,324.9	10.87	56.65	1,320.5	37.7	57.3	68.6	1.50	1.50	0.00
1,400.0	10.87	56.65	1,394.3	45.5	69.1	82.7	0.00	0.00	0.00
1,500.0	10.87	56.65	1,492.5	55.9	84.9	101.6	0.00	0.00	0.00
1,600.0	10.87	56.65	1,590.7	66.2	100.6	120.5	0.00	0.00	0.00
1,700.0	10.87	56.65	1,688.9	76.6	116.4	139.3	0.00	0.00	0.00
1,800.0	10.87	56.65	1,787.1	87.0	132.1	158.2	0.00	0.00	0.00
1,900.0	10.87	56.65	1,885.3	97.3	147.9	177.1	0.00	0.00	0.00
2,000.0	10.87	56.65	1,983.5	107.7	163.7	195.9	0.00	0.00	0.00
2,100.0	10.87	56.65	2,081.7	118.1	179.4	214.8	0.00	0.00	0.00
2,200.0	10.87	56.65	2,179.9	128.5	195.2	233.7	0.00	0.00	0.00
2,300.0	10.87	56.65	2,278.2	138.8	210.9	252.5	0.00	0.00	0.00
2,400.0	10.87	56.65	2,376.4	149.2	226.7	271.4	0.00	0.00	0.00
2,500.0	10.87	56.65	2,474.6	159.6	242.5	290.2	0.00	0.00	0.00
2,600.0	10.87	56.65	2,572.8	169.9	258.2	309.1	0.00	0.00	0.00
2,700.0	10.87	56.65	2,671.0	180.3	274.0	328.0	0.00	0.00	0.00
2,800.0	10.87	56.65	2,769.2	190.7	289.7	346.8	0.00	0.00	0.00
2,900.0	10.87	56.65	2,867.4	201.0	305.5	365.7	0.00	0.00	0.00
3,000.0	10.87	56.65	2,965.6	211.4	321.2	384.6	0.00	0.00	0.00
3,100.0	10.87	56.65	3,063.8	221.8	337.0	403.4	0.00	0.00	0.00
3,200.0	10.87	56.65	3,162.0	232.2	352.8	422.3	0.00	0.00	0.00
3,300.0	10.87	56.65	3,260.2	242.5	368.5	441.2	0.00	0.00	0.00
3,400.0	10.87	56.65	3,358.4	252.9	384.3	460.0	0.00	0.00	0.00
3,500.0	10.87	56.65	3,456.6	263.3	400.0	478.9	0.00	0.00	0.00
3,600.0	10.87	56.65	3,554.8	273.6	415.8	497.7	0.00	0.00	0.00
3,700.0	10.87	56.65	3,653.0	284.0	431.5	516.6	0.00	0.00	0.00
3,800.0	10.87	56.65	3,751.2	294.4	447.3	535.5	0.00	0.00	0.00
3,900.0	10.87	56.65	3,849.4	304.7	463.1	554.3	0.00	0.00	0.00
4,000.0	10.87	56.65	3,947.6	315.1	478.8	573.2	0.00	0.00	0.00
4,100.0	10.87	56.65	4,045.8	325.5	494.6	592.1	0.00	0.00	0.00
4,200.0	10.87	56.65	4,144.0	335.9	510.3	610.9	0.00	0.00	0.00
4,300.0	10.87	56.65	4,242.2	346.2	526.1	629.8	0.00	0.00	0.00
4,400.0	10.87	56.65	4,340.4	356.6	541.8	648.7	0.00	0.00	0.00
4,500.0	10.87	56.65	4,438.7	367.0	557.6	667.5	0.00	0.00	0.00
4,600.0	10.87	56.65	4,536.9	377.3	573.4	686.4	0.00	0.00	0.00
4,700.0	10.87	56.65	4,635.1	387.7	589.1	705.2	0.00	0.00	0.00
4,800.0	10.87	56.65	4,733.3	398.1	604.9	724.1	0.00	0.00	0.00
4,900.0	10.87	56.65	4,831.5	408.5	620.6	743.0	0.00	0.00	0.00
5,000.0	10.87	56.65	4,929.7	418.8	636.4	761.8	0.00	0.00	0.00
5,100.0	10.87	56.65	5,027.9	429.2	652.1	780.7	0.00	0.00	0.00
5,200.0	10.87	56.65	5,126.1	439.6	667.9	799.6	0.00	0.00	0.00

NEWFIELD



## PayZone Directional Services, LLC.

## Planning Report



**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 22 T8S, R17E  
**Well:** F-23-8-17  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well F-23-8-17  
**TVD Reference:** F-23-8-17 @ 5108.0ft (Original Well Elev)  
**MD Reference:** F-23-8-17 @ 5108.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	10.87	56.65	5,224.3	449.9	683.7	818.4	0.00	0.00	0.00
5,400.0	10.87	56.65	5,322.5	460.3	699.4	837.3	0.00	0.00	0.00
5,500.0	10.87	56.65	5,420.7	470.7	715.2	856.2	0.00	0.00	0.00
5,580.7	10.87	56.65	5,500.0	479.0	727.9	871.4	0.00	0.00	0.00
<b>F-23-8-17 TGT</b>									
5,600.0	10.87	56.65	5,518.9	481.0	730.9	875.0	0.00	0.00	0.00
5,700.0	10.87	56.65	5,617.1	491.4	746.7	893.9	0.00	0.00	0.00
5,800.0	10.87	56.65	5,715.3	501.8	762.4	912.7	0.00	0.00	0.00
5,900.0	10.87	56.65	5,813.5	512.2	778.2	931.6	0.00	0.00	0.00
6,000.0	10.87	56.65	5,911.7	522.5	794.0	950.5	0.00	0.00	0.00
6,100.0	10.87	56.65	6,009.9	532.9	809.7	969.3	0.00	0.00	0.00
6,200.0	10.87	56.65	6,108.1	543.3	825.5	988.2	0.00	0.00	0.00
6,300.0	10.87	56.65	6,206.3	553.6	841.2	1,007.1	0.00	0.00	0.00
6,400.0	10.87	56.65	6,304.5	564.0	857.0	1,025.9	0.00	0.00	0.00
6,500.0	10.87	56.65	6,402.7	574.4	872.7	1,044.8	0.00	0.00	0.00
6,600.0	10.87	56.65	6,501.0	584.7	888.5	1,063.7	0.00	0.00	0.00
6,700.9	10.87	56.65	6,600.0	595.2	904.4	1,082.7	0.00	0.00	0.00

## Targets

## Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
F-23-8-17 TGT	0.00	0.00	5,500.0	479.0	727.9	7,211,118.45	2,064,764.09	40° 6' 23.424 N	109° 58' 58.031 W
- plan hits target									
- Circle (radius 75.0)									



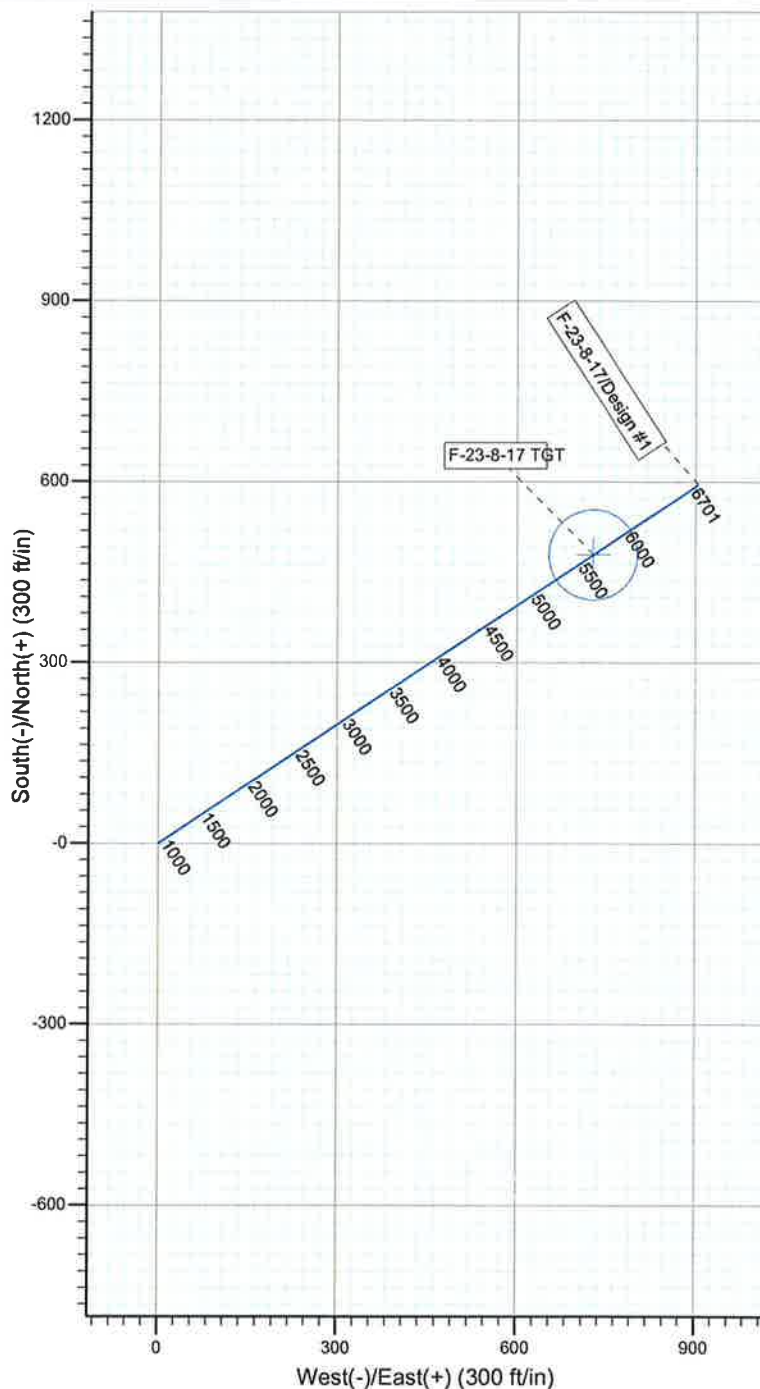
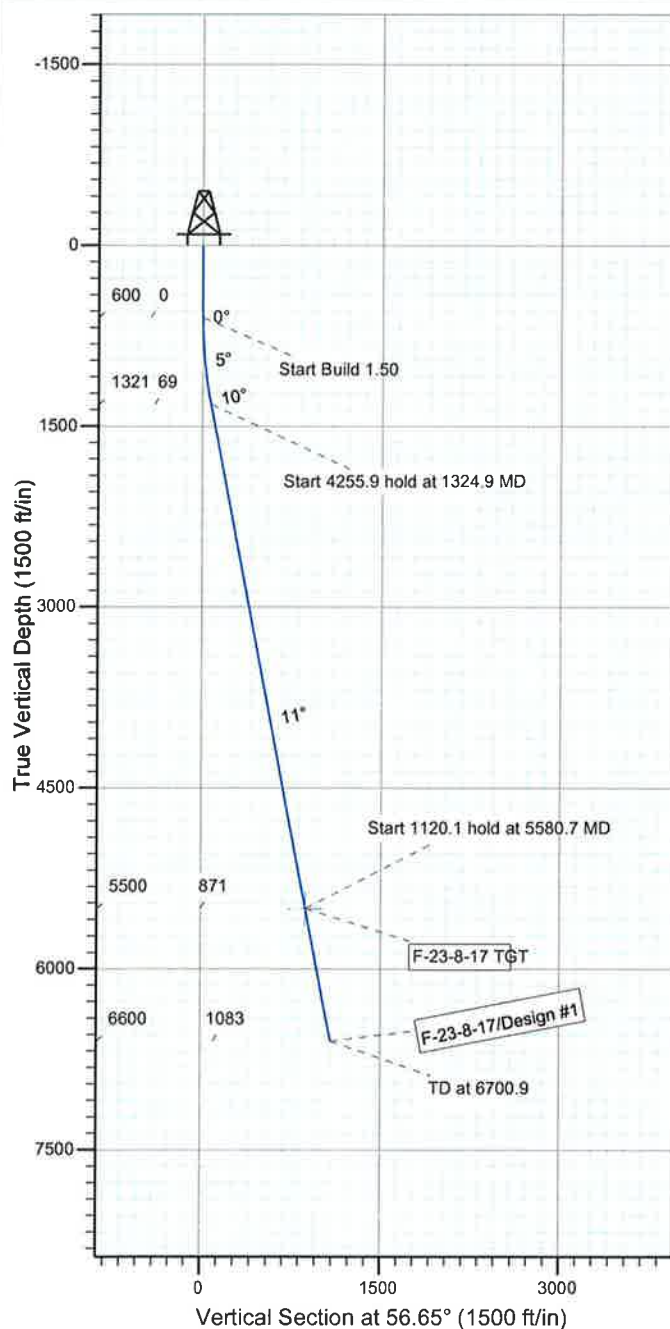
Project: USGS Myton SW (UT)  
 Site: SECTION 22 T8S, R17E  
 Well: F-23-8-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.38°

Magnetic Field  
 Strength: 52388.1snT  
 Dip Angle: 65.88°  
 Date: 2010/09/27  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100  
 TARGET RADIUS IS 75'



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
F-23-8-17 TGT	5500.0	479.0	727.9	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1324.9	10.87	56.65	1320.5	37.7	57.3	1.50	56.65	68.6	
4	5580.7	10.87	56.65	5500.0	479.0	727.9	0.00	0.00	871.4	F-23-8-17 TGT
5	6700.9	10.87	56.65	6600.0	595.2	904.4	0.00	0.00	1082.7	



F-23-8-17

MEMORANDUM  
of  
AMENDMENT TO EASEMENT, RIGHT-OF-WAY  
and  
SURFACE USE AGREEMENT

This Amendment to Easement, Right-of-Way and Surface Use Agreement ("Agreement") is entered into this 4th day of September, 2009 by and between **Brad Lee Nelson and Joann H. Nelson, Co-Trustees of the Brad and Joann Nelson Family Trust, dated February 28, 1991**, whose address is PO Box 638, Roosevelt, UT 84066 ("Surface Owner," whether one or more) and Newfield Production Company, a Texas corporation ("NEWFIELD"), with offices at 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202.

Whereas Surface Owner and NEWFIELD entered into an Easement, Right-of-Way and Surface Use Agreement dated March 1, 2008 covering certain lands situated in Duchesne and Uintah Counties, Utah, as described as follows:

Township 8 South, Range 17 East  
Section 22: NE, E/2NW, N/2SW, SESW, S/2SE  
Section 23: SWSW  
Duchesne County, Utah

Township 8 South, Range 17 East  
Section 23: SESW  
Uintah County, Utah

being 520 acres, more or less and pertaining to the following wells:

Federal 1-22-8-17 (NENE – Sec. 22)  
Federal 31-22-8-17 (NWNE – Sec. 22)  
Federal 22-22Y-8-17 (SENE – Sec. 22)  
Federal 32-22-8-17 (SWNE – Sec. 22)  
Federal 8-22-8-17 (SENE – Sec. 22)  
Federal 23-22Y-8-17 (NESW – Sec. 22)  
Federal 13-22Y-8-17 (NWSW – Sec. 22)  
Federal 14-22-8-17 (SESW – Sec. 22)  
Federal 15-22-8-17 (SWSE – Sec. 22)  
Federal 16-22-8-17 (SESE – Sec. 22)  
Federal 13-23-8-17 (SWSW – Sec. 23)  
Federal 14-23-8-17 (SESW – Sec. 23)

And Whereas Surface Owner and NEWFIELD hereby amend the aforementioned Easement, Right-of-Way and Surface Agreement to include the following well:

Federal 3-22-8-17 (NENW – Sec. 22)

For and in consideration of the sum of ten dollars (\$10.00), and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby agree to the terms and provisions set forth as follows:

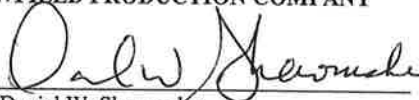
NEWFIELD shall pay to Surface Owner the sum as set forth in and according to the terms of that certain Amendment to Easement, Right-of Way and Surface Use Agreement by and between Surface Owner and NEWFIELD, dated September 4, 2009, as full payment and satisfaction for any and all detriment, depreciation, injury or damage of any nature to the Lands or growing crops thereon that may occur as a result of NEWFIELD's drilling or completion operations or its continuing activities for the production or transportation of oil, gas, or other hydrocarbons or products associated with the foregoing including, but not limited to, surface use, access, pipelines, gathering lines, pipeline interconnections, and any and all other reasonable or customary uses of land related to said operations or activities.

Except as supplemented and amended in this Amendment, the Easement, Right-of-Way and Surface Use Agreement dated March 1, 2008, and referenced herein, shall remain in full force and effect as originally executed.

This Agreement shall be binding upon the respective heirs, executors, administrators, successors, and assigns of the undersigned. This agreement replaces and supersedes any and all prior agreements covering the lands described herein.

These Parties hereto have executed this document effective as of the day first above written.

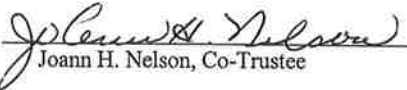
**NEWFIELD PRODUCTION COMPANY**

By:   
Daniel W. Shewmake  
Vice President, Development

**SURFACE OWNER:**

**BRAD AND JOANN NELSON FAMILY TRUST, DATED FEBRUARY 28, 1991**

By:   
Brad Lee Nelson, Co-Trustee

By:   
Joann H. Nelson, Co-Trustee

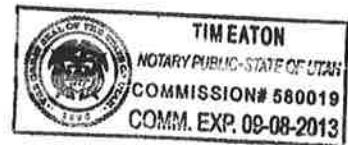
STATE OF UTAH )  
 )ss  
COUNTY OF Duchesne )

This instrument was acknowledged before me this 30<sup>th</sup> day of Sept., 2009 by  
Brad & Joann Nelson

Witness my hand and official seal.

My commission expires 9/8/2013

Tim Eaton  
Notary Public



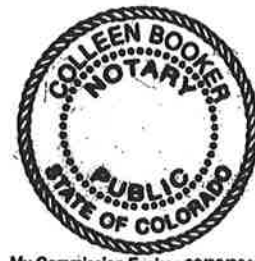
STATE OF COLORADO )  
 )ss  
COUNTY OF DENVER )

This instrument was acknowledged before me this Sept 17<sup>th</sup>, 2009 by  
**Daniel W. Shewmake, as Vice President, Development of Newfield Production Company**, a Texas corporation, on behalf of the corporation.

Witness my hand and official seal.

My commission expires 2/22/2010

Colleen Booker  
Notary Public



My Commission Expires 02/22/2010

**NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE F-23-8-17  
AT SURFACE: SE/NE SECTION 22, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Monument Butte F-23-8-17 located in the SE 1/4 NE 1/4 Section 22, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly – 6.8 miles  $\pm$  to it's junction with an existing road to the east; proceed easterly - 3.0 miles  $\pm$  to it's junction with an existing road to the northeast; proceed northeasterly - 0.9 miles  $\pm$  to the existing 8-22-8-17 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 8-22-8-17 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

Newfield Collector Well  
Water Right: 41-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. **ANCILLARY FACILITIES**



There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. **PLANS FOR RESTORATION OF SURFACE:**

- a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

- b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP** – Brad and Joann Nelson. See attached Memorandum of Surface Use Agreement.

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #10-178, 11/4/10. Paleontological Resource Survey prepared by, Wade E. Miller, 10/22/10. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 1,064' of buried water line to be granted in Lease UTU-66191.

It is proposed that the disturbed area will be 60' wide to allow for construction of the proposed access road, a 10" or smaller gas gathering line, a 4" poly fuel gas line, a buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. The planned access road will consist of a 20' permanent running surface (10' either side of the centerline) crowned and ditched in order to handle any run-off from any precipitation events that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be turnouts as needed along this road to allow for increases in potential traffic issues. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the Bureau of Land Management field office.

For a ROW plan of development, please refer to the Greater Monument Butte Green River Development SOP and as well as the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

#### **Surface Flow Line**

Newfield requests 1,053' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "D"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

Clearing and Grading: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

Installation: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

Termination and Final Reclamation: After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation

procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

#### **Water Disposal**

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

#### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

#### **Details of the On-Site Inspection**

The proposed Greater Monument Butte F-23-8-17 was on-sited on 11/9/10. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management), Suzanne Grayson (Bureau of Land Management), and Janna Simonsen (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

#### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte F-23-8-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Monument Butte F-23-8-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

#### **13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

##### Representative

Name: Tim Eaton  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

##### Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #F-23-8-17, Section 22, Township 8S, Range 17E: Lease UTU-77233 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

11/30/10  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

## 2-M SYSTEM

Blowout Prevention Equipment Systems

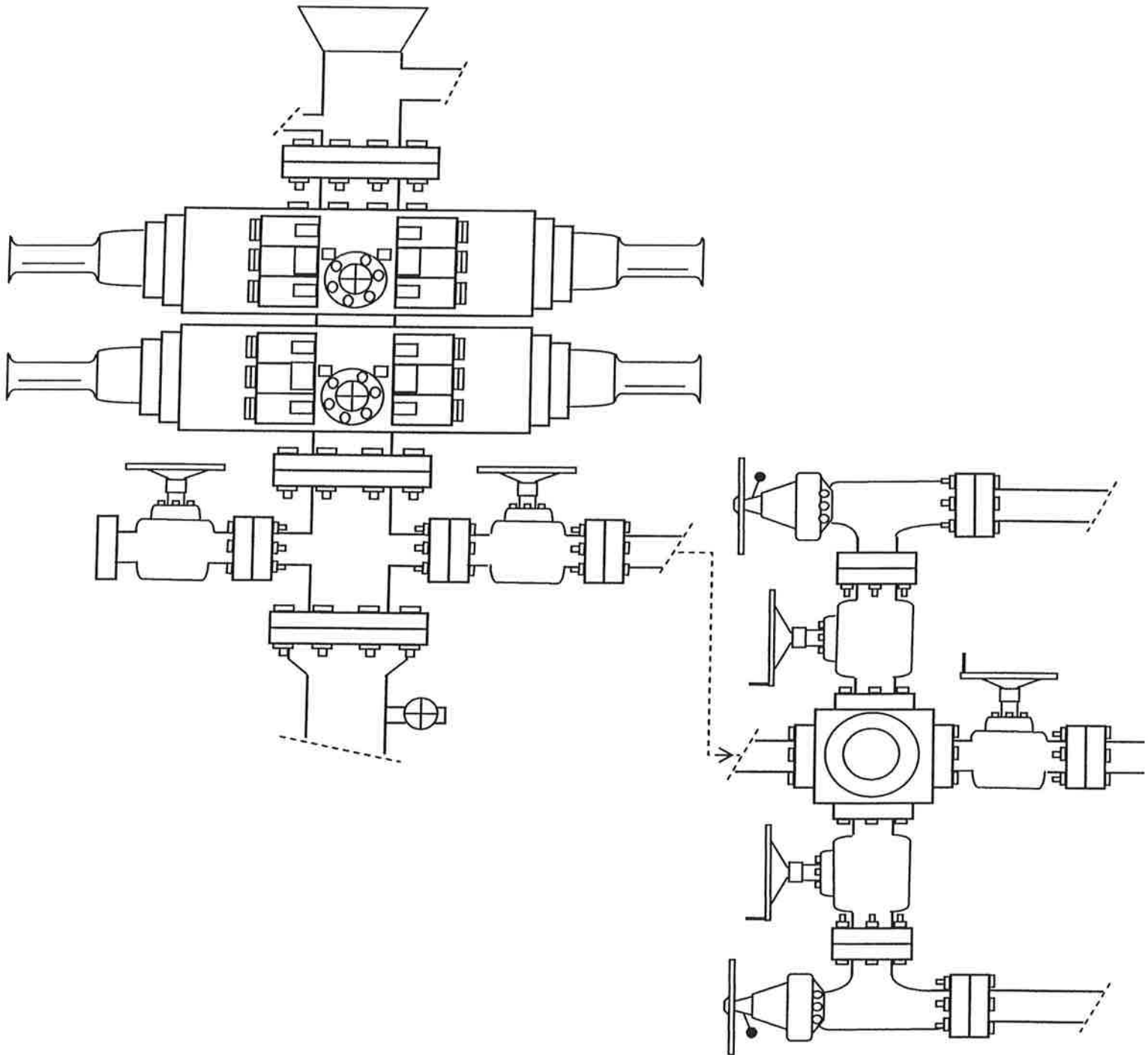


EXHIBIT C





December 1, 2010

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**Greater Monument Butte F-23-8-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R17E Section 22: SENE (UTU-77233)  
2002' FNL 635' FEL

Bottom Hole: T8S-R17E Section 23: SWNW (UTU-76239)  
1414' FNL 278' FWL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 11/30/10, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

Should you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at [sgillespie@newfield.com](mailto:sgillespie@newfield.com).

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink, appearing to read "Shane Gillespie".

Shane Gillespie  
Land Associate



Form 3160-3  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER  1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone 2. Name of Operator <b>Newfield Production Company</b>			5. Lease Serial No. <b>UTU-77233</b>	
			6. If Indian, Allottee or Tribe Name <b>NA</b>	
			7. If Unit or CA Agreement, Name and No. <b>Greater Monument Butte</b>	
			8. Lease Name and Well No. <b>Greater Monument Butte F-23-8-17</b>	
3a. Address <b>Route #3 Box 3630, Myton UT 84052</b>			3b. Phone No. (include area code) <b>(435) 646-3721</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface <b>SE/NE 2002' FNL 635' FEL Sec. 22, T8S R17E (UTU-77233)</b> At proposed prod. zone <b>SW/NW 1414' FNL 278' FWL Sec. 23, T8S R17E (UTU-76239)</b>			10. Field and Pool, or Exploratory <b>Monument Butte</b>	
14. Distance in miles and direction from nearest town or post office* <b>Approximately 12.1 miles southeast of Myton, UT</b>			11. Sec., T. R. M. or Blk. and Survey or Area <b>Sec. 22, T8S R17E</b>	
15. Distance from proposed* location to nearest property or lease line, ft. <b>Approx. 278' f/lse, NA' f/unit</b> (Also to nearest drig. unit line, if any)		16. No. of acres in lease <b>560.00</b>	17. Spacing Unit dedicated to this well <b>20 Acres</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>Approx. 1,080'</b>		19. Proposed Depth <b>6,701'</b>	20. BLM/BIA Bond No. on file <b>WYB000493</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5096' GL</b>		22. Approximate date work will start* <b>1st Qtr. 2011</b>	23. Estimated duration <b>(7) days from SPUD to rig release</b>	

**24. Attachments**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- |   |   |
|---|---|
| 1. Well plat certified by a registered surveyor.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification<br>6. Such other site specific information and/or plans as may be required by the BLM. |
|---|---|

25. Signature	Name (Printed Typed) <b>Mandie Crozier</b>	Date <b>11/30/10</b>
---------------	---	-------------------------

Title  
**Regulatory Specialist**

Approved by (Signature)	Name (Printed Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)

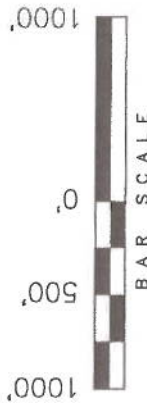
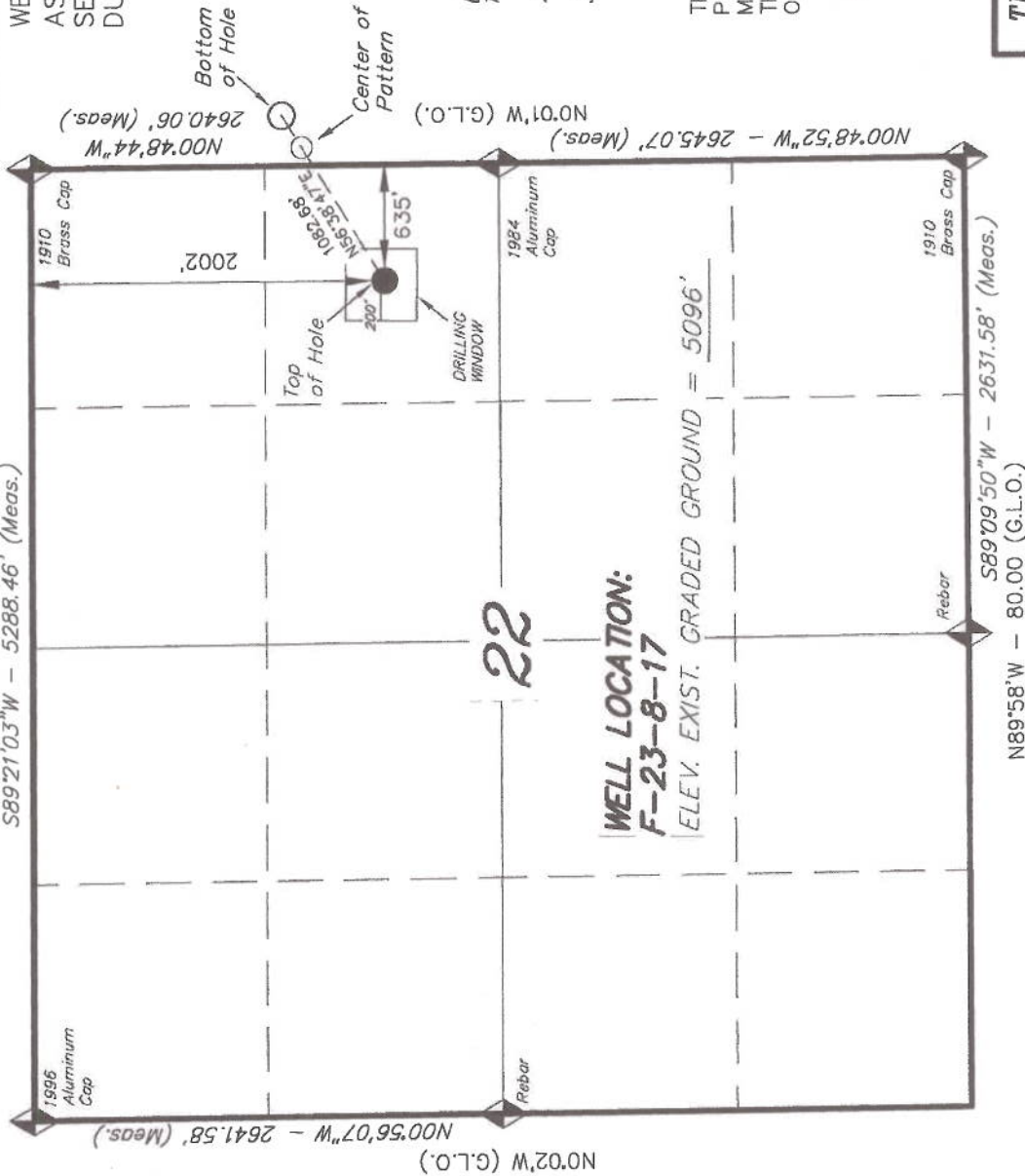


# T8S, R17E, S.L.B.&M.

N89°31'W - 79.96 (G.L.O.)  
S89°21'03"W - 5288.46' (Meas.)

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, F-23-8-17, LOCATED AS SHOWN IN THE SE 1/4 NE 1/4 OF SECTION 22, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



### NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The center of pattern footages are 1530' FNL & 100' FWL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BEING 6.189377



## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

F-23-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 06' 18.69"  
LONGITUDE = 109° 59' 07.40"

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

DATE SURVEYED:  
08-17-10

SURVEYED BY: S.V.

DATE DRAWN:  
09-30-10

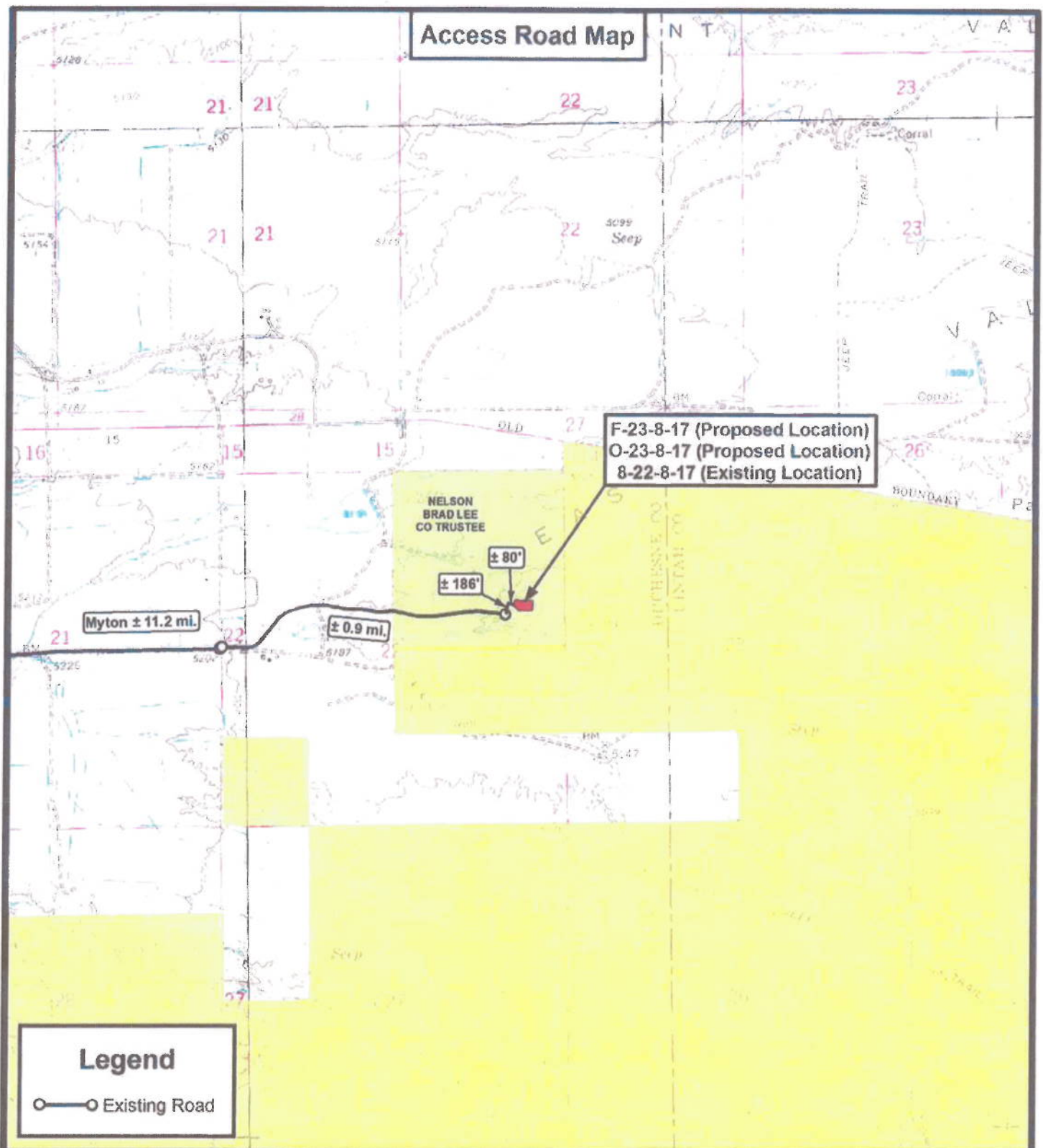
DRAWN BY: M.W.

REVISED:

SCALE: 1" = 1000'







THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



### NEWFIELD EXPLORATION COMPANY

F-23-8-17 (Proposed Location)  
O-23-8-17 (Proposed Location)  
8-22-8-17 (Existing Location)  
SEC. 22, T8S, R17E, S.L.B.&M. Duchesne County, UT.

**TOPOGRAPHIC MAP**

SHEET  
**B**

DRAWN BY: C.H.M.  
DATE: 10-05-2010  
SCALE: 1" = 2,000'

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:**

**3160**

**(UT-922)**

December 1, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50511	GMBU Q-17-9-17	Sec 17 T09S R17E 0650 FSL 0640 FWL BHL Sec 17 T09S R17E 1715 FSL 1718 FWL
43-013-50512	GMBU T-18-9-17	Sec 17 T09S R17E 0642 FSL 0620 FWL BHL Sec 18 T09S R17E 1481 FSL 0183 FEL
43-013-50513	GMBU W-7-9-17	Sec 18 T09S R17E 0691 FNL 2054 FWL BHL Sec 07 T09S R17E 0175 FSL 2447 FEL
43-013-50514	GMBU G-22-8-17	Sec 22 T08S R17E 0645 FNL 0642 FWL BHL Sec 22 T08S R17E 1474 FNL 1475 FWL
43-013-50515	GMBU M-22-8-17	Sec 22 T08S R17E 1959 FNL 2011 FWL BHL Sec 22 T08S R17E 2597 FSL 2309 FEL
43-013-50516	GMBU N-22-8-17	Sec 22 T08S R17E 1975 FNL 1998 FWL BHL Sec 22 T08S R17E 2568 FSL 1183 FWL
43-013-50517	GMBU F-23-8-17	Sec 22 T08S R17E 2002 FNL 0635 FEL BHL Sec 23 T08S R17E 1414 FNL 0278 FWL
43-013-50518	GMBU O-23-8-17	Sec 22 T08S R17E 2017 FNL 0650 FEL BHL Sec 23 T08S R17E 2491 FSL 0146 FWL

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50519	GMBU S-22-8-17	Sec 22 T08S R17E 0612 FSL 0499 FEL
	BHL	Sec 22 T08S R17E 1438 FSL 1306 FEL
43-013-50520	GMBU P-23-8-17	Sec 22 T08S R17E 0618 FSL 0479 FEL
	BHL	Sec 23 T08S R17E 1190 FSL 0376 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

 Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, ou=Bureau of Land Management, ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2010.12.01 11:38:12 -0700

bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:12-1-10

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

<b>Operator</b>	NEWFIELD PRODUCTION COMPANY				
<b>Well Name</b>	Greater Monument Butte F-23-8-17				
<b>API Number</b>	43013505170000	<b>APD No</b>	3248	<b>Field/Unit</b>	MONUMENT BUTTE
<b>Location: 1/4,1/4</b>	SENE	<b>Sec</b>	22	<b>Tw</b>	8.0S <b>Rng</b> 17.0E 2002 FNL 635 FEL
<b>GPS Coord (UTM)</b>	586532 4439719	<b>Surface Owner</b>	Brad and Joann Nelson		

### **Participants**

Floyd Bartlett (DOGM), Tim Eaton (Newfield).

### **Regional/Local Setting & Topography**

The proposed Greater Monument Butte F-23-8-17 and Greater Monument Butte O-23-8-17 oil wells are directional wells to be drilled from the existing pad of the 8-22-8-17 producing oil well. No extension of the existing pad is planned. The pad is short on the lay-down side and will have to be drilled with a small rig. Extension the east is possible but not planned. The surface of the existing pad is soft with some alkali on the surface. Light rutting from current use is evident. The site should be hardened with approximately 4 inches of road base or imported borrow. The reserve pit will be re-dug in approximately the original location. The wells are on 20-acre spacing.

The site should be a suitable for drilling and operating the proposed additional wells.

Brad and Joann Nelson own the surface.

The minerals are owned by the United States Government and administered by the Bureau of Land Management.

### **Surface Use Plan**

#### **Current Surface Use**

Grazing  
Wildlife Habitat  
Existing Well Pad

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0	<b>Width   Length</b>		

#### **Ancillary Facilities**

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

#### **Soil Type and Characteristics**

The surface of the existing pad is soft with some alkali on the surface. Light rutting from current use is evident.

#### **Erosion Issues** N

#### **Sedimentation Issues** N



**Site Stability Issues** Y**Drainage Diversion Required?** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N

. The surface of the existing pad is soft with some alkali on the surface. Light rutting from current use is evident. The site should be hardened with approximately 4 inches of road base or imported borrow.

**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?****Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>		20
<b>Distance to Surface Water (feet)</b>	100 to 200	15
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>		20
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		70

1 Sensitivity Level

**Characteristics / Requirements**

A reserve pit will be re-dug in approximately the original location. Its dimensions are 80' x 40' x 8' deep. A 16 mil liner with an appropriate sub-liner is required.

**Closed Loop Mud Required?** N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y**Other Observations / Comments**

Floyd Bartlett  
Evaluator

11/23/2010  
Date / Time

# Application for Permit to Drill

## Statement of Basis

12/21/2010

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
3248	43013505170000	LOCKED	OW	P	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>	Brad and Joann Nelson	
<b>Well Name</b>	Greater Monument Butte F-23-8-17		<b>Unit</b>	GMBU (GRRV)	
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>	DRILL	
<b>Location</b>	SENE 22 8S 17E S 2002 FNL 635 FEL GPS Coord (UTM) 586538E 4439719N				

**Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Federal Government. The BLM will be the agency responsible for evaluating and approving the proposed drilling, casing and cement programs.

Brad Hill  
APD Evaluator

12/20/2010  
Date / Time

**Surface Statement of Basis**

The proposed Greater Monument Butte F-23-8-17 and Greater Monument Butte O-23-8-17 oil wells are directional wells to be drilled from the existing pad of the 8-22-8-17 producing oil well. No extension of the existing pad is planned. The pad is short on the lay-down side and will have to be drilled with a small rig. Extension the east is possible but not planned. The surface of the existing pad is soft with some alkali on the surface. Light rutting from current use is evident. The site should be hardened with approximately 4 inches of road base or imported borrow. The reserve pit will be re-dug in approximately the original location. The wells are on 20-acre spacing.

The site should be a suitable for drilling and operating the proposed additional wells.

Brad and Joann Nelson own the surface. Kent Nelson, a son, attended some of the previous locations but left stating he had no concerns regarding the remaining proposed sites.

The minerals are owned by the United States Government and administered by the Bureau of Land Management. Ms. Christina Cimiluca and Ms. Janna Simonsen previously visited the site with Mr. Tim Eaton of Newfield. They had no concerns or recommendations.

Floyd Bartlett  
Onsite Evaluator

11/23/2010  
Date / Time

**Conditions of Approval / Application for Permit to Drill**

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The surface of the existing pad is soft with some alkali on the surface. Light rutting from current use is evident. The site should be hardened with approximately 4 inches of road base or imported borrow.

# WORKSHEET

## APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 11/30/2010

**API NO. ASSIGNED:** 43013505170000

**WELL NAME:** Greater Monument Butte F-23-8-17

**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SENE 22 080S 170E

**Permit Tech Review:** ☒

**SURFACE:** 2002 FNL 0635 FEL

**Engineering Review:** ☐

**BOTTOM:** 1414 FNL 0278 FWL

**Geology Review:** ☒

**COUNTY:** DUCHESNE

**LATITUDE:** 40.10522

**LONGITUDE:** -109.98467

**UTM SURF EASTINGS:** 586538.00

**NORTHINGS:** 4439719.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-77233

**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

**SURFACE OWNER:** 4 - Fee

**COALBED METHANE:** NO

### RECEIVED AND/OR REVIEWED:

☒ **PLAT**

☒ **Bond:** FEDERAL - WYB000493

☐ **Potash**

☐ **Oil Shale 190-5**

☐ **Oil Shale 190-3**

☐ **Oil Shale 190-13**

☒ **Water Permit:** 437478

☐ **RDCC Review:**

☒ **Fee Surface Agreement**

☐ **Intent to Commingle**

**Commingle Approved**

### LOCATION AND SITING:

☐ **R649-2-3.**

**Unit:** GMBU (GRRV)

☐ **R649-3-2. General**

☐ **R649-3-3. Exception**

☒ **Drilling Unit**

**Board Cause No:** Cause 213-11

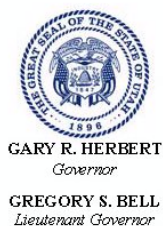
**Effective Date:** 11/30/2009

**Siting:** Suspends General Siting

☒ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:** 4 - Federal Approval - dmason  
5 - Statement of Basis - bhill  
15 - Directional - dmason  
27 - Other - bhill



## State of Utah

### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

#### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Greater Monument Butte F-23-8-17  
**API Well Number:** 43013505170000  
**Lease Number:** UTU-77233  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 12/21/2010

#### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

#### Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

#### Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No.  
UTU-77233

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA Agreement, Name and No.  
Greater Monument Butte

8. Lease Name and Well No.  
Greater Monument Butte F-23-8-17

9. API Well No.  
43-013-50517

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T. R. M. or Blk. and Survey or Area  
Sec. 22, T8S R17E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
Newfield Production Company

3a. Address  
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)  
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface SE/NE 2002' FNL 635' FEL Sec. 22, T8S R17E (UTU-77233)  
At proposed prod. zone SW/NW 1414' FNL 278' FWL Sec. 23, T8S R17E (UTU-76239)

14. Distance in miles and direction from nearest town or post office\*  
Approximately 12.1 miles southeast of Myton, UT

15. Distance from proposed\*  
location to nearest  
property or lease line, ft. Approx. 278' f/lse, NA' f/unit  
(Also to nearest drig. unit line, if any)

16. No. of acres in lease  
560.00

17. Spacing Unit dedicated to this well  
20 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. Approx. 1,080'

19. Proposed Depth  
6,701'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5096' GL

22. Approximate date work will start\*  
1st Qtr. 2011

23. Estimated duration  
(7) days from SPUD to rig release

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the  
BLM.

25. Signature

*Mandie Crozier*

Name (Printed/Typed)  
Mandie Crozier

Date

11/30/10

Title

Regulatory Specialist

Approved by (Signature)

*Jerry Kenczka*

Name (Printed/Typed)

Jerry Kenczka

Date

APR 19 2011

Title

Assistant Field Manager  
Lands & Mineral Resources

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to  
conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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(Continued on page 2)

\*(Instructions on page 2)

MAY 02 2011

NOS 10/28/10 DIV OF OIL, GAS & MINING

RECEIVED

AFMSS# 11575004A

DEC 02 2010

UDOGM

NOTICE OF APPROVAL

BLM VERNAL, UTAH

CONDITIONS OF APPROVAL ATTACHED





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company  
Well No: Greater Monument Butte F-23-8-17  
API No: 43-013-50517

Location: SENE, Sec. 22, T8S R17E  
Lease No: UTU-77233  
Agreement: Greater Monument Butte

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC CONDITIONS OF APPROVAL:**

- A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be installed and maintained in the reserve pit.
- Any deviation from the submitted APD surface use, the operator will notify the BLM in writing and include a copy of surface owner authorization.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and surface use agreement on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All permanent surface equipment (meaning on site for six months or longer) will be painted Covert Green to match the surrounding landscape color unless otherwise authorized. This would include all facilities except those required to comply with Occupational Safety and Health Act (OSHA) regulations.
- Reclamation will be completed in accordance with the recontouring and reseeding procedures outlined in the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM, unless otherwise specified by the private surface owner.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- The operator shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with the lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



Spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By  
Branden Arnold Phone Number 435-401-0223  
Well Name/Number GMB F-23-8-17  
Qtr/Qtr SE/NE Section 22 Township 8S Range 17E  
Lease Serial Number UTU-77233  
API Number 43-013-50517

Spud Notice – Spud is the initial spudding of the well, not drilling  
out below a casing string.

Date/Time 5/15/11      9:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing  
times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 5/15/11      3:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 28 T8S R17E

5. Lease Serial No.

USA UTU-77233

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

GRTR MON BUTTE F-23-8-17

9. API Well No.

4301350517

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other	Spud Notice
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 5/15/11 MIRU Ross #29. Spud well @9:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 309.37. On 5/17/11 cement with 160 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 7 barrels cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Branden Arnold

Signature

Title

Date

05/17/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**MAY 23 2011**

**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 309.37

LAST CASING 14 SET AT 15  
 DATUM 10  
 DATUM TO CUT OFF CASING 10  
 DATUM TO BRADENHEAD FLANGE 10  
 TD DRILLER 310 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company  
 WELL GMBU F-23-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross # 29

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1		wellhead					A	1.42
7	8 5/8"	casing (shoe jt 37.65)		24	J-55	STC	A	299.05
1	8 5/8"	guide shoe					A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				301.37
TOTAL LENGTH OF STRING		301.37	7	LESS CUT OFF PIECE				2
LESS NON CSG. ITEMS		2.32		PLUS DATUM TO T/CUT OFF CSG				10
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH				<b>309.37</b>
TOTAL		299.05	7	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)								
TIMING				GOOD CIRC THRU JOB <u>Yes</u>				
BEGIN RUN CSG. Spud		9:00 AM	5/15/2011	Bbls CMT CIRC TO SURFACE _____				
CSG. IN HOLE		5:00 AM	5/15/2011	RECIPROCATED PIPI <u>No</u>				
BEGIN CIRC		7:32 AM	5/17/2011	BUMPED PLUG TO <u>343</u>				
BEGIN PUMP CMT		7:44 AM	5/17/2011					
BEGIN DSPL. CMT		7:54 AM	5/17/2011					
PLUG DOWN		8:03 AM	5/17/2011					

[illegible]

COMPANY REPRESENTATIVE Branden Arnold DATE 5/17/2011

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	18061	4301350450	UTE T RIBAL 6-16-4-1W	SENW	16	4S	1W	DUCHESNE	5/19/2011	5/31/11
WELL 1 COMMENTS: GRRV											
B	99999	17400	4301350514	GREATER MON BUTTE G-22-8-17	NWNW	22	8S	17E	DUCHESNE	5/24/2011	5/31/11
GRRV BHL = SENW											
B	99999	17400	4301350517	GREATER MON BUTTE F-23-8-17	SENE	23	8S	17E	DUCHESNE	5/15/2011	5/31/11
GRRV BHL = Sec 23 SWNW											
B	99999	17400	4301350518	GREATER MON BUTTE O-23-8-17	SENE	23	8S	17E	DUCHESNE	5/16/2011	5/31/11
GRRV BHL = Sec 23 NWSW											
B	99999	17400	4301350652	GMBU W-2-9-15	SESW	2	9S	15E	DUCHESNE	5/13/2011	5/31/11
GRRV BHL = SWSE											
A	99999	18062	4304751233	FEDERAL 4-24-6-20	NWNW	24	6S	20E	UINTAH	5/24/2011	5/31/11
GRRV											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - 1 well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

RECEIVED

MAY 31 2011

Signature

Jentri Park

Production Clerk

05/31/11

NOTE: Use COMMENT section to explain why each Action Code was selected.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-77233
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2002 FNL 0635 FEL		8. WELL NAME and NUMBER: GRTR MON BUTTE F-23-8-17
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: 22, T8S, R17E		9. API NUMBER: 4301350517
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 06/20/2011	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 6/20/2011, attached is a daily completion status report.

NAME (PLEASE PRINT) Jennifer Peatross

TITLE Production Technician

SIGNATURE

DATE 06/29/2011

(This space for State use only)

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DIV. OF OIL, GAS & MINING



**Daily Activity Report**

Format For Sundry

**GMBU F-23-8-17****4/1/2011 To 8/30/2011****6/9/2011 Day: 1****Completion**

Rigless on 6/9/2011 - Run CBL & perforate stg #1. - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6630' & cement top @ 70'. Perforate stage #1, CP5 sds @ (6527'-28') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. CP3 sds @ (6339'-41') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 6 shots. CP2 sds @ 6293'-96') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 9 shots. CP1 sds @ (6235'37') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 6 shots. CP.5 sds @ (6188'-90') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 6 shots. RD H/O truck & The Perforators WLT & mast. Wait on frac crew EWTR 157 BBLs

**Daily Cost:** \$0**Cumulative Cost:** \$17,296

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**6/14/2011 Day: 2****Completion**

Rigless on 6/14/2011 - Perforate, frac & flowback well. - Frac & perforate 4 stages as detailed. 1755 BWTR. Open for immediate flowback @ approx 3 BPM. Well flowed for 1 1/2 hours & died. Recovered approx 220 BW. SWIFN. 1535 BWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$111,552

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**6/15/2011 Day: 3****Completion**

NC #1 on 6/15/2011 - MIRU NC#1, N/D 10,000 BOP,N/U 5,000 BOP,RIH W/-Bit & - 10:30AM MIRU NC#1, 3 Mile Rig Move. N/D 10,000 BOP, N/U 5,000 BOP, R/U Flr, P/U & RIH W/-4 3/4 Bit, Bit Sub, 150 Jts Tbg, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl.

**Daily Cost:** \$0**Cumulative Cost:** \$116,812

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**6/16/2011 Day: 4****Completion**

NC #1 on 6/16/2011 - Drill Up Plg @ 4969', 5460',Drill On Plg @ 6009' 2 Hrs C/SDFN. - 5:30AM-6:00AM C/Trvl, 6:00AM OWU, RIH W/-3 Jts Tbg To Fill @ 4812', R/U Slaugh Pwr Swvl, R/U R/pmp, Cln Out To Plg @ 4969', Drill Up Plg, 2 Hr Drill Time, Swvl I/Hle To Fill @ 5225', Cln Out To Plg @ 5460', Drill Up Plg,2 Hr Drill Time. Swvl I/Hle To Plg @ 6009', Drill On Plg 2 Hrs, POOH W/-1 Jt Tbg, SWI, 6:30PM- C/SDFN, 6:30PM-7:00PM C/Trvl. 1535 BWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$123,140

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**6/17/2011 Day: 5****Completion**

NC #1 on 6/17/2011 - Drill Up Remainder Of Plg @ 6009',Cln Out To PBTD @6649',Curc Well

Cln,POOH W/4 Jts Tbg,EOB @ 6539'. Swab For Cln Up. - 5:30AM-6:00AM C/Trvl, 6:00AM OWU, RIH To Plg @ 6009', Drill Up Remainder Of Plg, 3 Hrs Total Drill Time. Swvl I/Hle To Fill @ 6193', Drill & Cln Out To PBTD @ 6649', Curc Well Cln 1 Hr, POOH W/-4 Jts Tbg, EOB @ 6539'. R/U Swab, RIH IFL @ Surf, Made 15 Swab Runs Recvred 144 BW, Trce Sand, 2 % Oil Cut, FFL @ 1700', SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. 1391 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$129,723

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**6/20/2011 Day: 6****Completion**

NC #1 on 6/20/2011 - Cln Out To PBTD,CWC,POOH W/Tbg & Bit.RIH W/Tbg Prod,Set T/A Land Tbg Prod,Run pmp & Rod Prod,R/U Unit, POP ( Final Report ). - 5:30AM-6:00AM C/Trvl, 6:00AM OWU W/-450 Psi On Tbg & Csg, R/U R/pmp, pmp 30 BW D/Tbg, RIH W/-3 Jts Tbg To Fill @ 6617', Cln Out To PBTD @ 6649', Curc Well Cln, POOH W/-211 Jts Tbg, Bit Sub & Bit. P/U & RIH W/-Bull Plg, 3 Jts Tbg, 2 7/8 Nipple, PBGA, 1 Jt Tbg, S/N, 2 Jts Tbg, 5 1/2" T/A W/-Carbide Slips, 199 Jts Tbg, R/D Flr, N/D BOP, Set T/A In 18,000 Tension, N/U W/-HD. P/U Stroke & RIH W/-Central Hyd 2 1/2X1 1/2X20X24' RHAC, 1"X4' 3 Per Pony, 4-1 1/2 Wt Bars W/-1"X4' 3 Per Ponys Between Wt Bars, 145- 3/4 8 Per, 100-7/8 8 Per, 7/8X8'-4' Ponys, 1 1/2X30' Polish Rod, Seat pmp, R/U Unit, Hole Standing Full, Stroke Unit & Tbg To 800 Psi, Good Test. R/D Rig, POP @ 6:00PM , 144" SL, 5 SPM, 1463 BWTR, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. ( Final Report ). **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$214,185

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**Pertinent Files:** Go to File List

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. UTU-77233			
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____						6. If Indian, Allottee or Tribe Name			
2. Name of Operator NEWFIELD EXPLORATION COMPANY						7. Unit or CA Agreement Name and No. Greater Monument Butte			
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202				3a. Phone No. (include area code) (435) 646-3721		8. Lease Name and Well No. Greater Monument Butte F-23-8-17			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 2002' FNL & 635' FEL (SE/NE) SEC. 22, T8S, R17E (UTU-77233) At top prod. interval reported below 1577' FNL & 2' FEL (SE/NE) SEC. 22, T8S, R17E (UTU-77233) At total depth 1419' FNL & 292' FWL (SW/NW) SEC. 12, T9S, R17E (UTU-76239)						9. AFI Well No. 43-013-50517			
14. Date Spudded 05/15/2011		15. Date T.D. Reached 05/25/2011		16. Date Completed 06/20/2011 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		10. Field and Pool or Exploratory MONUMENT BUTTE			
18. Total Depth: MD 6700' TVD 6587'		19. Plug Back T.D.: MD 6649' TVD 6539'		20. Depth Bridge Plug Set: MD TVD		11. Sec., T., R., M., on Block and Survey or Area SEC. 22, T8S, R17E			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND						12. County or Parish DUCHESNE			
						13. State UT			
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)						17. Elevations (DF, RKB, RT, GL)* 5096' GL 5108' KB			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	310'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6688'		291 PRIMLITE		70'	
						417 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 6459'	TA @ 6260'							
25. Producing Intervals									
Formation		Top	Bottom	26. Perforation Record		Perforated Interval		Size	No. Holes
A) Green River		4890'	6528'			4890-6528'		.36"	84
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
4890-6528'		Frac w/ 164735#s 20/40 sand in 1141 bbls of Lightning 17 fluid in 4 stages.							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
6/27/11	7/11/11	24	→	25	82	29			2-1/2" x 1-1/2" x 20' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD AND USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	4890'	6528'		GARDEN GULCH MRK	4300'
				GARDEN GULCH 1	4496'
				GARDEN GULCH 2	4618'
				POINT 3	4917'
				X MRKR	5151'
				Y MRKR	5189'
				DOUGLAS CREEK MRK	5329'
				BI CARBONATE MRK	5631'
				B LIMESTON MRK	6793'
				CASTLE PEAK	6169'
				BASAL CARBONATE	6594'

## 32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: Drilling Daily Activity

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Jennifer Peatross

Title Production Technician

Signature

Date 07/13/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 22 T8S, R17E  
F-23-8-17**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**24 May, 2011**



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
Project: USGS Myton SW (UT)  
Site: SECTION 22 T8S, R17E  
Well: F-23-8-17  
Wellbore: Wellbore #1  
Design: Actual

Local Co-ordinate Reference: Well F-23-8-17  
TVD Reference: F-23-8-17 @ 5108.0ft (Newfield Rig #1)  
MD Reference: F-23-8-17 @ 5108.0ft (Newfield Rig #1)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 22 T8S, R17E, SEC 22 T8S, R17E				
Site Position:		Northing:	7,208,900.00 ft	Latitude:	40° 6' 1.964 N
From:	Lat/Long	Easting:	2,062,000.00 ft	Longitude:	109° 59' 34.084 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.97 °

Well	F-23-8-17, SHL LAT: 40° 06' 18.69, LONG: -109° 59' 07.40					
Well Position	+N/-S	0.0 ft	Northing:	7,210,627.14 ft	Latitude:	40° 6' 18.690 N
	+E/-W	0.0 ft	Easting:	2,064,044.41 ft	Longitude:	109° 59' 7.400 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,108.0 ft	Ground Level:	5,096.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/09/27	11.38	65.88	52,388

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	56.65	

Survey Program	Date 2011/05/24				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
316.0	6,700.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
316.0	0.90	207.60	316.0	-2.2	-1.1	-2.2	0.28	0.28	0.00
347.0	0.70	213.00	347.0	-2.6	-1.4	-2.6	0.69	-0.65	17.42
377.0	0.80	242.00	377.0	-2.8	-1.7	-2.9	1.29	0.33	96.67
408.0	1.10	263.80	408.0	-3.0	-2.1	-3.4	1.50	0.97	70.32
439.0	1.40	279.90	439.0	-2.9	-2.8	-4.0	1.48	0.97	51.94
469.0	1.60	283.40	469.0	-2.8	-3.6	-4.5	0.73	0.67	11.67
500.0	1.70	289.70	499.9	-2.5	-4.4	-5.1	0.67	0.32	20.32
530.0	1.70	306.10	529.9	-2.1	-5.2	-5.5	1.62	0.00	54.67
561.0	1.70	317.30	560.9	-1.5	-5.9	-5.7	1.07	0.00	36.13
591.0	1.90	327.80	590.9	-0.7	-6.5	-5.8	1.28	0.67	35.00
622.0	2.00	343.30	621.9	0.2	-6.9	-5.6	1.73	0.32	50.00
653.0	1.90	352.10	652.9	1.2	-7.1	-5.3	1.02	-0.32	28.39





# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
Project: USGS Myton SW (UT)  
Site: SECTION 22 T8S, R17E  
Well: F-23-8-17  
Wellbore: Wellbore #1  
Design: Actual

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North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
683.0	2.10	352.00	682.9	2.3	-7.3	-4.8	0.67	0.67	-0.33
713.0	2.70	352.20	712.8	3.5	-7.4	-4.3	2.00	2.00	0.67
744.0	3.20	352.50	743.8	5.1	-7.6	-3.6	1.61	1.61	0.97
775.0	4.00	353.30	774.7	7.0	-7.9	-2.7	2.59	2.58	2.58
805.0	4.40	355.40	804.6	9.2	-8.1	-1.7	1.43	1.33	7.00
836.0	4.90	0.40	835.5	11.7	-8.2	-0.4	2.07	1.61	16.13
880.0	5.40	5.50	879.4	15.7	-8.0	2.0	1.54	1.14	11.59
924.0	6.10	7.30	923.1	20.0	-7.5	4.8	1.64	1.59	4.09
968.0	6.60	9.40	966.9	24.9	-6.8	8.0	1.25	1.14	4.77
1,012.0	7.10	11.50	1,010.6	30.0	-5.8	11.7	1.27	1.14	4.77
1,056.0	7.60	12.20	1,054.2	35.5	-4.7	15.6	1.15	1.14	1.59
1,100.0	8.20	12.30	1,097.8	41.4	-3.4	20.0	1.36	1.36	0.23
1,144.0	8.30	16.80	1,141.3	47.5	-1.8	24.6	1.48	0.23	10.23
1,188.0	8.70	19.20	1,184.8	53.7	0.2	29.7	1.21	0.91	5.45
1,232.0	8.70	23.10	1,228.3	59.9	2.6	35.1	1.34	0.00	8.86
1,276.0	8.40	26.90	1,271.8	65.9	5.4	40.7	1.45	-0.68	8.64
1,320.0	8.70	31.10	1,315.4	71.6	8.6	46.5	1.57	0.68	9.55
1,364.0	8.80	36.00	1,358.8	77.1	12.3	52.7	1.71	0.23	11.14
1,408.0	9.10	38.70	1,402.3	82.6	16.4	59.1	1.17	0.68	6.14
1,452.0	9.60	42.00	1,445.7	88.0	21.0	66.0	1.67	1.14	7.50
1,496.0	9.70	46.10	1,489.1	93.3	26.2	73.2	1.58	0.23	9.32
1,540.0	10.10	50.30	1,532.4	98.4	31.8	80.6	1.88	0.91	9.55
1,584.0	10.50	54.10	1,575.7	103.2	38.0	88.5	1.79	0.91	8.64
1,628.0	10.80	56.60	1,619.0	107.8	44.7	96.6	1.25	0.68	5.68
1,672.0	11.00	60.00	1,662.2	112.2	51.8	104.9	1.53	0.45	7.73
1,716.0	11.30	62.10	1,705.4	116.3	59.2	113.4	1.15	0.68	4.77
1,760.0	11.40	63.50	1,748.5	120.2	66.9	122.0	0.67	0.23	3.18
1,804.0	11.60	64.90	1,791.6	124.1	74.8	130.7	0.78	0.45	3.18
1,848.0	11.90	64.80	1,834.7	127.9	82.9	139.6	0.68	0.68	-0.23
1,892.0	11.90	65.10	1,877.7	131.7	91.2	148.6	0.14	0.00	0.68
1,936.0	11.60	66.60	1,920.8	135.4	99.3	157.4	0.97	-0.68	3.41
1,980.0	11.40	66.10	1,963.9	138.9	107.4	166.0	0.51	-0.45	-1.14
2,024.0	11.40	64.80	2,007.1	142.5	115.3	174.6	0.58	0.00	-2.95
2,068.0	11.20	59.80	2,050.2	146.5	122.9	183.2	2.27	-0.45	-11.36
2,112.0	11.50	55.60	2,093.4	151.1	130.2	191.9	2.00	0.68	-9.55
2,156.0	12.20	51.40	2,136.4	156.5	137.5	200.9	2.52	1.59	-9.55
2,200.0	12.50	48.30	2,179.4	162.6	144.7	210.2	1.65	0.68	-7.05
2,244.0	12.10	47.90	2,222.4	168.8	151.6	219.5	0.93	-0.91	-0.91
2,288.0	11.70	48.70	2,265.5	174.9	158.4	228.5	0.98	-0.91	1.82
2,332.0	11.20	50.40	2,308.6	180.5	165.1	237.1	1.37	-1.14	3.86
2,376.0	10.50	51.50	2,351.8	185.8	171.5	245.4	1.66	-1.59	2.50
2,420.0	10.10	52.90	2,395.1	190.6	177.7	253.2	1.07	-0.91	3.18
2,464.0	10.10	51.80	2,438.4	195.3	183.8	260.9	0.44	0.00	-2.50
2,508.0	10.30	52.60	2,481.7	200.1	190.0	268.7	0.56	0.45	1.82
2,552.0	10.60	52.60	2,525.0	204.9	196.3	276.6	0.68	0.68	0.00
2,596.0	11.30	55.20	2,568.2	209.8	203.1	285.0	1.95	1.59	5.91
2,640.0	11.40	57.90	2,611.3	214.6	210.3	293.6	1.23	0.23	6.14
2,684.0	11.50	61.20	2,654.4	219.0	217.8	302.4	1.51	0.23	7.50
2,728.0	11.60	65.50	2,697.5	223.0	225.7	311.1	1.97	0.23	9.77
2,772.0	11.40	64.10	2,740.7	226.7	233.6	319.8	0.78	-0.45	-3.18
2,816.0	10.80	65.50	2,783.8	230.3	241.3	328.2	1.49	-1.36	3.18
2,860.0	11.30	65.30	2,827.0	233.8	249.0	336.5	1.14	1.14	-0.45
2,904.0	11.60	66.90	2,870.1	237.4	256.9	345.1	0.99	0.68	3.64
2,948.0	12.40	68.50	2,913.2	240.8	265.4	354.1	1.97	1.82	3.64



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 22 T8S, R17E  
 Well: F-23-8-17  
 Wellbore: Wellbore #1  
 Design: Actual

Local Co-ordinate Reference: Well F-23-8-17  
 TWD Reference: F-23-8-17 @ 5108.0ft (Newfield Rig #1)  
 MD Reference: F-23-8-17 @ 5108.0ft (Newfield Rig #1)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,992.0	13.20	66.80	2,956.1	244.5	274.4	363.7	2.01	1.82	-3.86
3,036.0	14.00	63.00	2,998.9	248.9	283.8	373.9	2.72	1.82	-8.64
3,080.0	15.70	61.00	3,041.4	254.2	293.7	385.1	4.03	3.86	-4.55
3,124.0	16.90	60.20	3,083.6	260.3	304.5	397.5	2.77	2.73	-1.82
3,168.0	17.80	59.50	3,125.6	266.9	315.8	410.6	2.10	2.05	-1.59
3,212.0	16.00	59.70	3,167.7	273.4	326.9	423.3	4.09	-4.09	0.45
3,256.0	15.20	56.20	3,210.1	279.6	336.9	435.2	2.81	-1.82	-7.95
3,300.0	13.00	54.10	3,252.8	285.8	345.7	445.9	5.13	-5.00	-4.77
3,344.0	11.40	54.10	3,295.8	291.2	353.2	455.2	3.64	-3.64	0.00
3,388.0	10.60	53.30	3,339.0	296.2	360.0	463.5	1.85	-1.82	-1.82
3,432.0	9.90	55.00	3,382.3	300.8	366.3	471.4	1.73	-1.59	3.86
3,476.0	9.40	60.60	3,425.6	304.7	372.6	478.7	2.42	-1.14	12.73
3,520.0	10.00	63.60	3,469.0	308.2	379.1	486.1	1.78	1.36	6.82
3,564.0	11.20	64.80	3,512.3	311.7	386.4	494.1	2.77	2.73	2.73
3,608.0	11.90	66.50	3,555.4	315.3	394.4	502.8	1.77	1.59	3.86
3,652.0	11.60	65.50	3,598.4	319.0	402.6	511.7	0.82	-0.68	-2.27
3,696.0	11.10	63.50	3,641.6	322.7	410.4	520.2	1.45	-1.14	-4.55
3,740.0	11.70	64.50	3,684.7	326.5	418.3	528.9	1.44	1.36	2.27
3,784.0	12.80	64.90	3,727.7	330.5	426.7	538.1	2.51	2.50	0.91
3,828.0	13.50	65.00	3,770.6	334.7	435.8	548.0	1.59	1.59	0.23
3,872.0	13.00	62.20	3,813.4	339.2	444.8	558.0	1.85	-1.14	-6.36
3,916.0	12.10	64.00	3,856.3	343.5	453.3	567.5	2.23	-2.05	4.09
3,960.0	12.00	63.70	3,899.4	347.6	461.6	576.6	0.27	-0.23	-0.68
4,014.0	11.70	64.60	3,952.2	352.4	471.5	587.6	0.65	-0.56	1.67
4,048.0	12.00	66.20	3,985.5	355.3	477.9	594.5	1.31	0.88	4.71
4,092.0	11.50	70.40	4,028.6	358.6	486.2	603.3	2.25	-1.14	9.55
4,136.0	12.20	70.10	4,071.6	361.7	494.7	612.1	1.60	1.59	-0.68
4,180.0	12.30	69.70	4,114.6	364.9	503.5	621.2	0.30	0.23	-0.91
4,224.0	12.00	67.40	4,157.6	368.3	512.1	630.2	1.29	-0.68	-5.23
4,268.0	11.50	65.00	4,200.7	371.9	520.3	639.1	1.59	-1.14	-5.45
4,312.0	11.20	65.40	4,243.9	375.5	528.2	647.6	0.70	-0.68	0.91
4,356.0	11.10	64.70	4,287.0	379.1	535.9	656.0	0.38	-0.23	-1.59
4,400.0	11.10	62.50	4,330.2	382.9	543.5	664.4	0.96	0.00	-5.00
4,444.0	11.10	64.20	4,373.4	386.7	551.0	672.9	0.74	0.00	3.86
4,488.0	11.10	65.50	4,416.6	390.3	558.7	681.2	0.57	0.00	2.95
4,532.0	11.70	66.10	4,459.7	393.8	566.6	689.8	1.39	1.36	1.36
4,576.0	12.20	65.20	4,502.7	397.6	574.9	698.8	1.21	1.14	-2.05
4,620.0	12.20	65.20	4,545.7	401.5	583.4	708.0	0.00	0.00	0.00
4,664.0	12.80	66.50	4,588.7	405.4	592.1	717.4	1.51	1.36	2.95
4,708.0	12.70	66.20	4,631.6	409.3	601.0	727.0	0.27	-0.23	-0.68
4,752.0	12.20	66.20	4,674.6	413.1	609.6	736.3	1.14	-1.14	0.00
4,796.0	11.40	64.60	4,717.7	416.9	617.8	745.2	1.96	-1.82	-3.64
4,840.0	11.20	63.00	4,760.8	420.7	625.5	753.8	0.85	-0.45	-3.64
4,884.0	11.20	61.30	4,804.0	424.6	633.1	762.3	0.75	0.00	-3.86
4,928.0	10.90	59.60	4,847.1	428.8	640.4	770.7	1.01	-0.68	-3.86
4,973.0	10.60	58.40	4,891.4	433.1	647.6	779.1	0.83	-0.67	-2.67
5,017.0	9.80	60.90	4,934.7	437.1	654.4	786.9	2.08	-1.82	5.68
5,061.0	9.90	60.60	4,978.0	440.7	660.9	794.4	0.26	0.23	-0.68
5,105.0	10.20	62.00	5,021.3	444.4	667.7	802.0	0.88	0.68	3.18
5,149.0	10.20	64.40	5,064.6	447.9	674.6	809.8	0.97	0.00	5.45
5,193.0	9.90	67.60	5,108.0	451.1	681.6	817.4	1.44	-0.68	7.27
5,237.0	10.10	67.50	5,151.3	454.0	688.7	824.9	0.46	0.45	-0.23
5,281.0	10.50	64.10	5,194.6	457.2	695.9	832.6	1.65	0.91	-7.73
5,325.0	10.90	64.00	5,237.8	460.8	703.2	840.7	0.91	0.91	-0.23



# PayZone Directional Services, LLC.

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 22 T8S, R17E  
**Well:** F-23-8-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well F-23-8-17  
**TVD Reference:** F-23-8-17 @ 5108.0ft (Newfield Rig #1)  
**MD Reference:** F-23-8-17 @ 5108.0ft (Newfield Rig #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

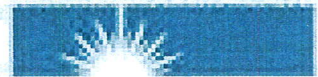
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,369.0	11.30	64.30	5,281.0	464.5	710.8	849.1	0.92	0.91	0.68
5,413.0	11.60	66.80	5,324.1	468.1	718.8	857.7	1.32	0.68	5.68
5,457.0	11.60	67.50	5,367.2	471.5	726.9	866.4	0.32	0.00	1.59
5,501.0	11.40	67.20	5,410.3	474.9	735.0	875.1	0.47	-0.45	-0.68
5,545.0	10.80	70.50	5,453.5	478.0	742.9	883.3	1.99	-1.36	7.50
5,588.2	10.11	74.52	5,496.0	480.3	750.4	890.9	2.32	-1.59	9.31
<b>F-23-8-17 TGT</b>									
5,589.0	10.10	74.60	5,496.8	480.4	750.5	891.0	2.32	-1.53	9.94
5,633.0	8.40	79.90	5,540.2	482.0	757.4	897.6	4.32	-3.86	12.05
5,677.0	7.50	78.70	5,583.8	483.1	763.4	903.3	2.08	-2.05	-2.73
5,721.0	7.80	74.50	5,627.4	484.4	769.1	908.8	1.44	0.68	-9.55
5,765.0	8.50	71.30	5,671.0	486.3	775.0	914.7	1.90	1.59	-7.27
5,809.0	8.30	73.40	5,714.5	488.2	781.2	920.9	0.83	-0.45	4.77
5,853.0	8.30	80.90	5,758.0	489.6	787.3	926.9	2.46	0.00	17.05
5,897.0	9.10	80.50	5,801.5	490.7	793.9	932.9	1.82	1.82	-0.91
5,941.0	10.20	75.00	5,844.9	492.3	801.1	939.8	3.26	2.50	-12.50
5,985.0	10.50	67.90	5,888.2	494.8	808.6	947.5	2.98	0.68	-16.14
6,029.0	10.70	64.00	5,931.4	498.1	816.0	955.4	1.69	0.45	-8.86
6,073.0	10.20	60.10	5,974.7	501.9	823.0	963.4	1.97	-1.14	-8.86
6,117.0	10.00	54.50	6,018.0	506.0	829.5	971.1	2.28	-0.45	-12.73
6,161.0	10.10	51.70	6,061.4	510.6	835.6	978.8	1.13	0.23	-6.36
6,205.0	10.30	52.70	6,104.7	515.4	841.8	986.5	0.61	0.45	2.27
6,249.0	11.30	52.70	6,147.9	520.4	848.4	994.7	2.27	2.27	0.00
6,293.0	12.30	51.50	6,190.9	525.9	855.5	1,003.7	2.34	2.27	-2.73
6,337.0	12.70	50.70	6,233.9	531.9	862.9	1,013.2	0.99	0.91	-1.82
6,381.0	13.20	49.60	6,276.8	538.2	870.4	1,023.0	1.27	1.14	-2.50
6,425.0	13.50	50.20	6,319.6	544.8	878.2	1,033.1	0.75	0.68	1.36
6,469.0	13.40	51.20	6,362.4	551.3	886.1	1,043.3	0.58	-0.23	2.27
6,513.0	13.30	50.40	6,405.2	557.7	894.0	1,053.4	0.48	-0.23	-1.82
6,557.0	13.50	51.40	6,448.0	564.1	901.9	1,063.5	0.70	0.45	2.27
6,601.0	12.90	53.00	6,490.8	570.3	909.8	1,073.5	1.60	-1.36	3.64
6,637.0	12.70	53.10	6,525.9	575.1	916.2	1,081.5	0.56	-0.56	0.28
6,700.0	12.70	53.10	6,587.4	583.4	927.3	1,095.3	0.00	0.00	0.00

### Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
F-23-8-17 TGT	0.00	0.00	5,500.0	479.1	727.9	7,211,118.45	2,064,764.09	40° 6' 23.424 N	109° 58' 58.031 W
- actual wellpath misses by 22.9ft at 5588.3ft MD (5496.1 TVD, 480.3 N, 750.4 E)									
- Circle (radius 75.0)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# NEWFIELD



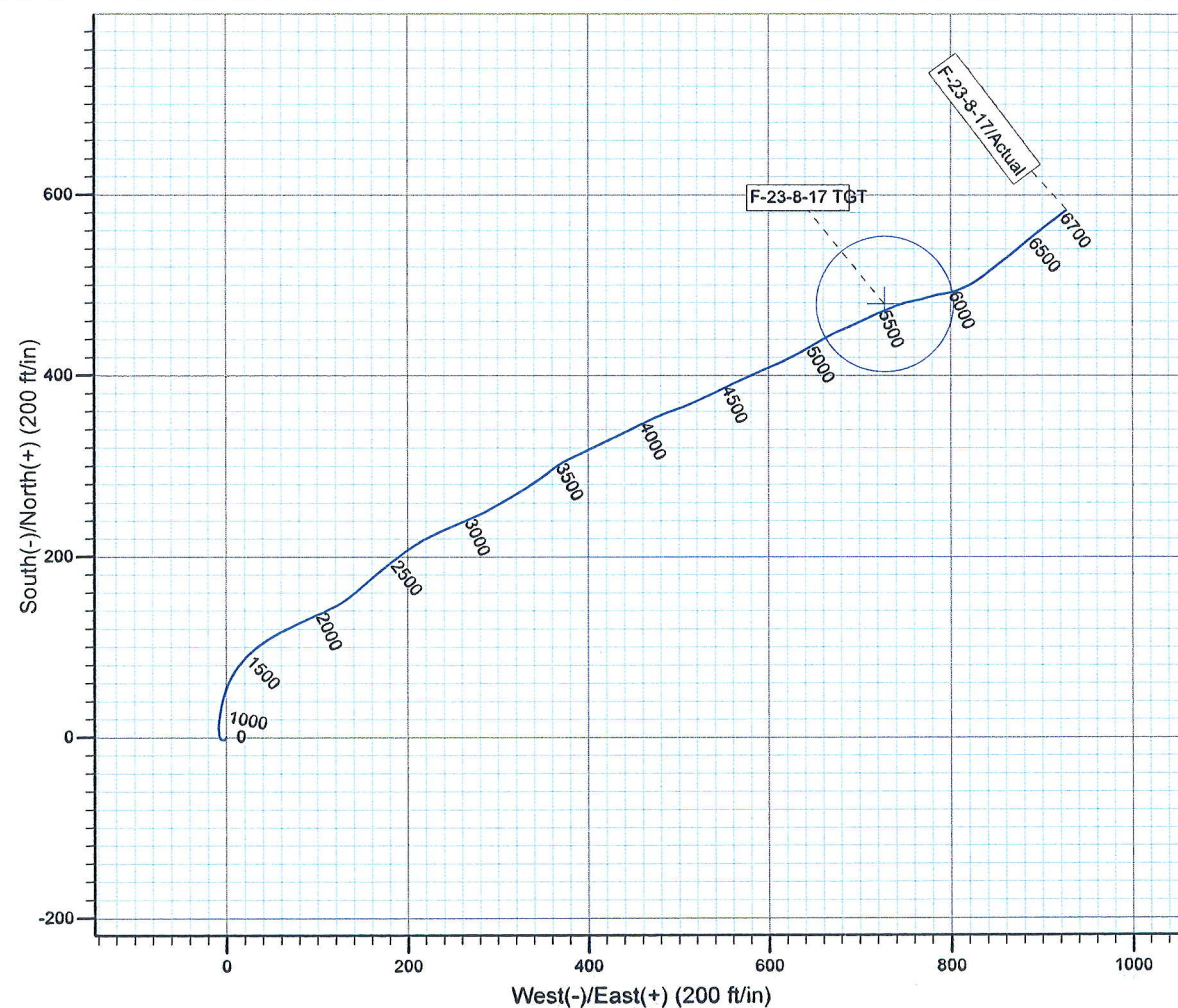
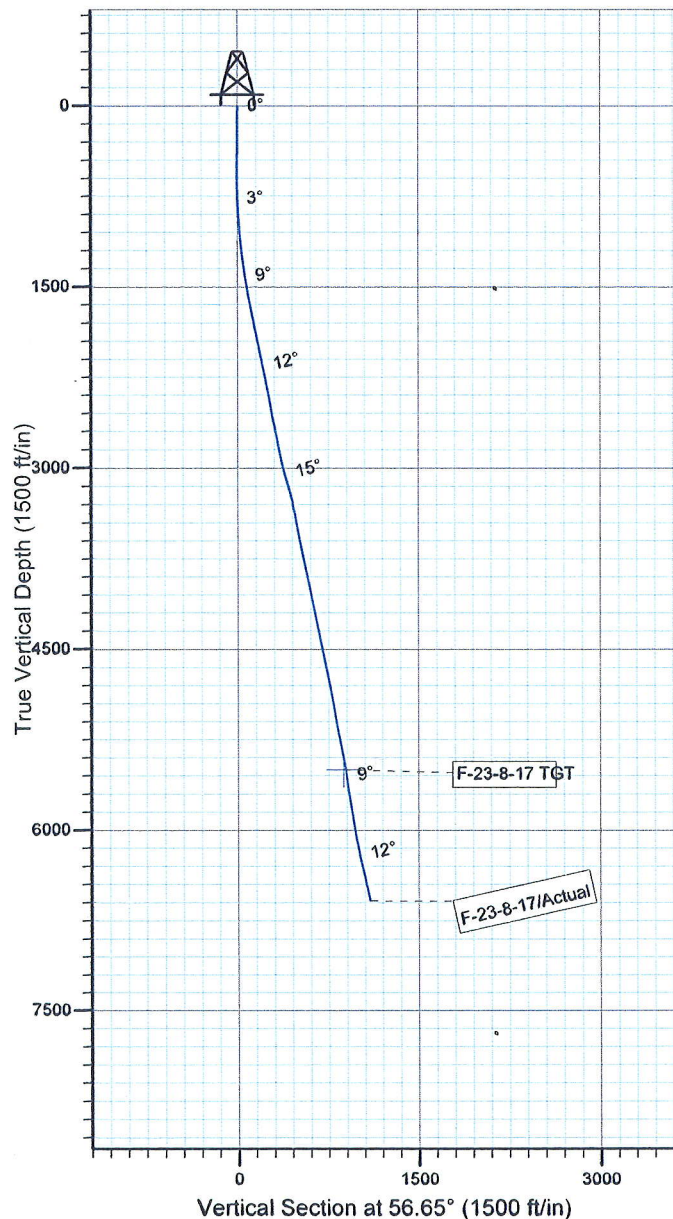
Project: USGS Myton SW (UT)  
 Site: SECTION 22 T8S, R17E  
 Well: F-23-8-17  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.38°

Magnetic Field  
 Strength: 52388.1snT  
 Dip Angle: 65.88°  
 Date: 2010/09/27  
 Model: IGRF2010



Design: Actual (F-23-8-17/Wellbore #1)

Created By: Sarah Webb Date: 20:26, May 24 2011  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.



**Daily Activity Report****Format For Sundry****GMBU F-23-8-17****3/1/2011 To 7/30/2011****GMBU F-23-8-17****Waiting on Cement****Date:** 5/17/2011

Ross #29 at 310. Days Since Spud - yield. Returned 7bbls to pit, bump plug to 343psi, BLM and State were notified of spud via email. - 309.37'KB. On 5/17/11 cement w/BJ w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17 - On 5/15/11 Ross #29 spud and drilled 310' of 12 1/4" hole, P/U and run 7 jts of 8 5/8" casing set

**Daily Cost:** \$0**Cumulative Cost:** \$63,623

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**GMBU F-23-8-17****Rigging down****Date:** 5/21/2011

NDSI SS #1 at 310. 0 Days Since Spud - Rig down and prepare for rig move

**Daily Cost:** \$0**Cumulative Cost:** \$67,677

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**GMBU F-23-8-17****Drill 7 7/8" hole with fresh water****Date:** 5/22/2011

NDSI SS #1 at 2615. 1 Days Since Spud - Rig up B&C Quicktest, test top drive, pipe & blind rams, choke to 2000#/10 min, casing 1500#/30 min - Move rig 3 miles w/ RWJones, set equipment, rig up - Drill 7 7/8" hole F/ 260' to 502' w/ 20K WOB, TRPM-165, GPM-409, Avg ROP-242 ft/hr - Rig Service, Lubricate rig - Drill 7 7/8" hole F/ 502' to 2615' w/ 20K WOB, TRPM-165, GPM-409, Avg ROP-176 ft/hr - No H2S or flow in last 24 hours - Pick up Smith MI616, Hunting M.M, directional tools and rotating head.

**Daily Cost:** \$0**Cumulative Cost:** \$108,305

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**GMBU F-23-8-17****Drill 7 7/8" hole with fresh water****Date:** 5/23/2011

NDSI SS #1 at 5124. 2 Days Since Spud - Change Liner gasket in pump - Rig Service, check BOP - Drill 7 7/8" hole F/ 2615' to 3142' w/ 20K WOB, TRPM-160, GPM-409, Avg ROP-151 ft/hr - Drill 7 7/8" hole F/ 3142' to 5124' w/ 20K WOB, TRPM-160, GPM-409, Avg ROP-102 ft/hr

**Daily Cost:** \$0**Cumulative Cost:** \$127,469

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**GMBU F-23-8-17****Lay Down Drill Pipe/BHA****Date:** 5/24/2011

NDSI SS #1 at 6700. 3 Days Since Spud - Lay down drill pipe - Circulate for lay down, Check Flow= No Flow - Rig Service, check BOP - Drill 7 7/8" hole F/ 5124' to 5696' w/ 20K WOB, TRPM-160, GPM-400, Avg ROP-76 ft/hr - Drill 7 7/8" hole F/ 5696' to 6700' TD w/ 22K WOB, TRPM-160, GPM-400, Avg ROP-77 ft/hr

**Daily Cost:** \$0**Cumulative Cost:** \$221,361

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**GMBU F-23-8-17****Rigging down****Date:** 5/25/2011

NDSI SS #1 at 6700. 4 Days Since Spud - fresh, returned 25 bbls to pit, bump plug to 1800#, BLM and State were notified - of tail (50:50:2+.05#SF+3%Kcl+.5%EC-1+.25#CF) at 14.4ppg and 1.24 yield, displace w/ 158 bbls of - Cement w/ 291skts of lead (PL II+.05#SF+3% KCL+.5#CF+2#Kol seal) at 11ppg and 3.53 yield and 417 sks - Circulate Casing - Run 161 jts of 5.5" J-55,15.5# LTC set @ 6688.13' - Change rams to 5.5", rig up B&C Quicktest and test to 2000#/10 min - Clean mud tanks - Lay down drill pipe and BHA - Break circulation and pump 260bbls of 9.9lb brine to kill flow - Trip in the hole to 3500' - Lay down drill pipe to 1000', Well started flowing - Rig up PSI and log from loggers TD 6690 to surface,(Gamma ray,compensated Neutron, density)

**Daily Cost:** \$0

**Cumulative Cost:** \$278,439

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**GMBU F-23-8-17**

**Rigging down**

**Date:** 5/26/2011

NDSI SS #1 at 6700. 5 Days Since Spud - Clean mud Tanks - Release Rig @ 09:00AM on 5-25-11 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$280,375

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**Pertinent Files: Go to File List**